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UNITED STATES PACIFIC FLEET  
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JAPANESE PROJECTILES  
VOLUME II

CINCPAC - CINCPOA  
BULLETIN NO. 85 - 45  
30 APRIL 1945

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ADDITIONAL PROJECTILES	421-426

Diameter: 81 mm

Designation: Type 97 HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling: TNT - 540 gm

Fuzing: Type 93 Instantaneous-Short Delay (Mortar)

Guns Used In: Type 97 Mortar

Remarks:

Diameter: 81 mm

Designation: Type 100 HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 3.35 kg

Weight and Type of Filling: TNT - 536 gm

Fuzing: Type 100 Instantaneous Short Delay (Mortar)

Guns Used In: Type 97 Mortar

Remarks: Equipment Class - 1

Diameter: 88 mm

Designation: Type 100 Long-pointed AA Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 9.070 kg

Weight and Type of Filling: TNT - 900 gm

Fuzing: Type 100 Mechanical Time (Gun)

Guns Used In: Type 99 8 cm AA Gun

Remarks: Equipment Class - 1

Diameter: 90 mm

Designation: Type 94 Practice Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 5.280 kg

Weight and Type of Filling: Sand - 1.090 kg

Fuzing: Type 93 Instantaneous-Short Delay (Mortar)

Guns Used In: Type 94 Light Mortar

Remarks: Equipment Class - 4

Diameter: 90 mm

Designation: Type 94 Substitute Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 5.410 kg

Weight and Type of Filling: 455 gm

Fuzing: Type 93 Instantaneous-Short Delay (Mortar)

Guns Used In: Type 94 Light Mortar

Remarks: Equipment Class - 4

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Diameter: 90 mm

Designation: Type 97 Smoke Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 618 mm

Projectile Weight:

Weight and Type of Filling:

Fuzing: 5th Year Type Combination (Modified) (Low  
muzzle velocity)

Guns Used In: Type 94 Light Mortar

Remarks: Filled with 6 disk-shaped cannisters, each  
containing 300 gm of "B" smoke compound  
Bursting height 30-80 meters  
Maximum range 1800-2200 meters

Diameter: 90 mm

Designation: Experimental Type 1 Smoke Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

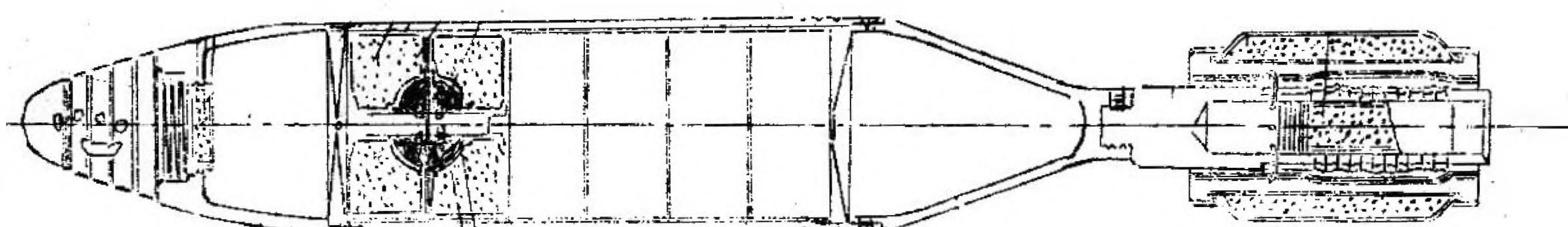
Projectile Weight: 8.575 kg

Weight and Type of Filling: Bursting charge - 5 gm  
H.C. Smoke Compound - 1.800 kg

Fuzing: 5th Year Type Combination (Modified) (Low  
muzzle velocity)

Guns Used In: Type 94 Light Mortar

Remarks:



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*Diameter:* 90 mm

*Designation:* Shrapnel Projectile A

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

*Weight and Type of Filling:* Fine grain powder

*Fuzing:* 5th Year Type Combination (Modified) and (Gun).

*Guns Used In:* 9 cm Gun  
Schneider Type 9 cm Rapid Fire Gun

*Remarks:*

*Diameter:* 90 mm

*Designation:* Shrapnel Projectile B

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

*Weight and Type of Filling:* Fine grain powder

*Fuzing:*

Type 88 18 sec. Combination (when used in the Schneider Gun)

32 sec. Combination (when used in the KODOSEI Gun)

50 sec. Combination (when used in the Steel Mortar)

*Guns Used In:*

Schneider Type 9 cm Rapid Fire Gun

KODOSEI (TN: 鋼銅制) 9 cm Rapid Fire Gun

Steel 9 cm Artillery Mortar

*Remarks:*

Diameter: 90 mm

Designation: Cast Iron AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 88 Nose

Guns Used In: Steel 9 cm Artillery Mortar

Remarks: Screw type friction primer

Diameter: 90 mm

Designation: HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 88 Small Instantaneous

Guns Used In: Steel 9 cm Artillery Mortar

Remarks: Screw type friction primer

Diameter: 90 mm

Designation: Type 94 HE Projectile

Color and Markings:

Projectile Length: 402 mm

Projectile Length With Fuze: 439.6 mm

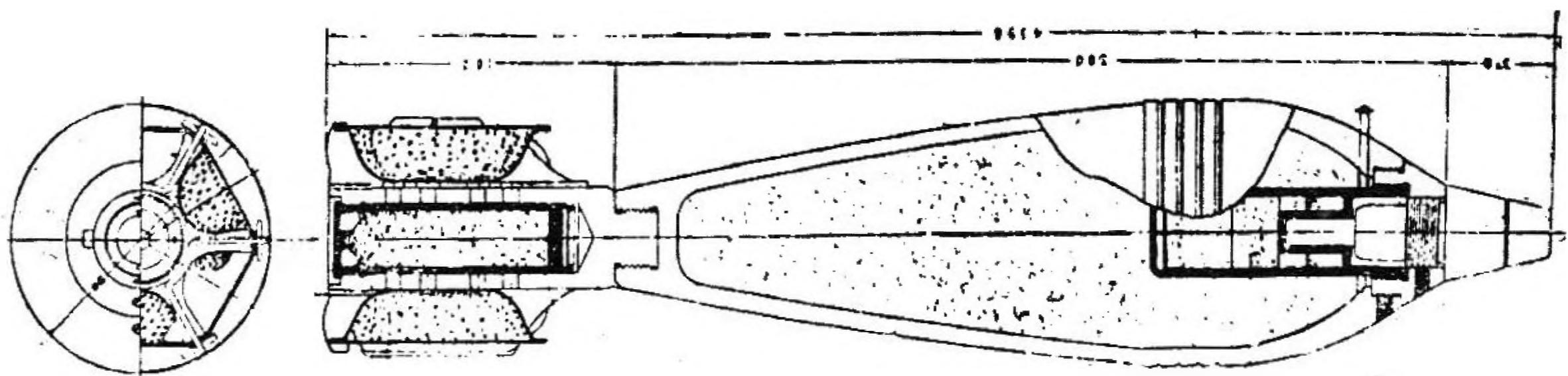
Projectile Weight: 5.260 kg

Weight and Type of Filling: TNT (poured) - 1.070 kg

Fuzing: Type 93 Instantaneous-Short Delay (Mortar)

Guns Used In: Type 94 Light Mortar

Remarks: Class C 40 gm booster  
Percussion primer  
Effective Radius - 30 meters  
Equipment Class - 1



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Diameter: 90 mm

Designation: Type 94 Heavy HE Projectile

Color and Markings:

Projectile Length: 768 mm

Projectile Length With Fuze: 805.8 mm

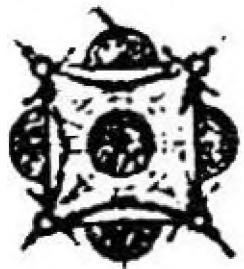
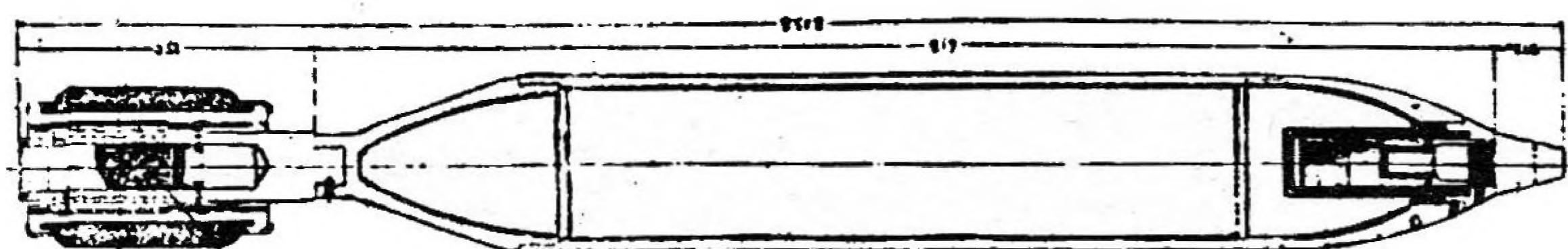
Projectile Weight: 11.230 kg

Weight and Type of Filling: ONAYAKU - 3.680 kg

Fuzing: Type 93 Instantaneous-Short Delay (Mortar)  
5th Year Type Combination

Guns Used In: Type 94 Light Mortar

Remarks: Class C 40 gm booster  
Equipment Class - 1



*Diameter:* 90 mm

*Designation:* Type 96 HE Projectile

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

*Weight and Type of Filling:* TNT - 5.865 kg

*Fuzing:* Type 93 Instantaneous-Short Delay (Mortar)

*Guns Used In:* Type 96 Medium Inf Mortar

*Remarks:*

*Diameter:* 90 mm

*Designation:* Type 97 HE Projectile

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

*Weight and Type of Filling:* TNT - 4.080 kg

*Fuzing:* Type 100 Instantaneous-Short Delay (Mortar)

*Guns Used In:* Type 97 Medium Inf Mortar

*Remarks:*

Diameter: 90 mm

Designation: Type 100 HE Projectile

*Color and Markings:*

Projectile Length: 214.2 mm

Projectile Length With Fuze: 252.2 mm

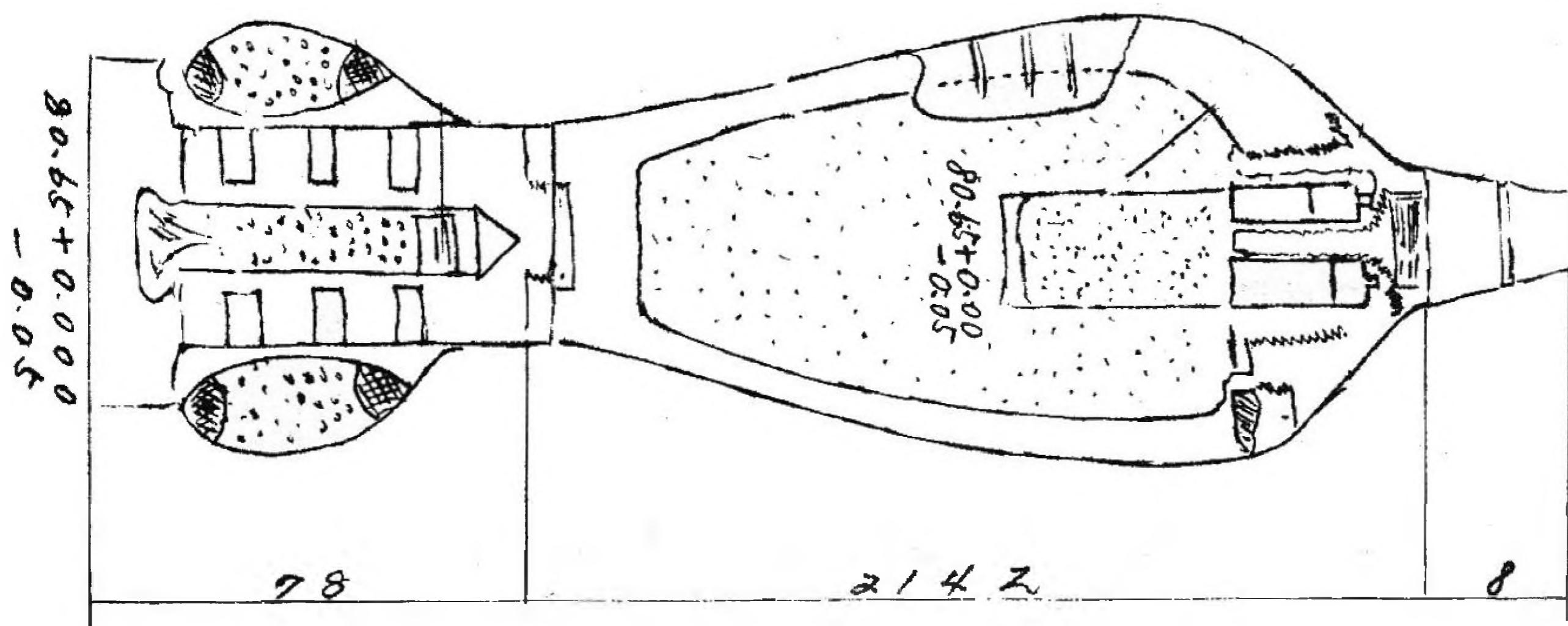
Projectile Weight: 3.350 kg

Weight and Type of Filling: TNT (poured) - 536 gm

*Fuzing:* Type 100 Instantaneous-Short Delay (Mortar)

*Guns Used In:* Type 97 Medium Inf Mortar

*Remarks:*



*Diameter:* 105 mm

*Designation:* Type 91 Substitute Long-pointed AA Projectile

*Color and Markings:*

*Projectile Length:*

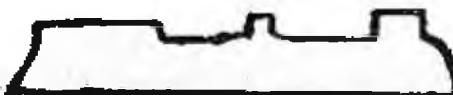
*Projectile Length With Fuze:*

*Projectile Weight:* 16.0 kg

*Weight and Type of Filling:* Fine grain powder

*Fuzing:* Type 89 Long-pointed AA

*Guns Used In:* 14th Year 10 cm AA Gun

*Remarks:* Rotating band:   
TNT, HEINEIYAKU or SHOTOYAKU listed as  
substitute fillers  
Equipment Class - 4

Diameter: 105 mm

Designation: Type 95 Substitute Projectile A

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 15.880 kg

Weight and Type of Filling: Fine grain powder

Fuzing:

5th Year Type Combination (Modified)  
(10 cm Howitzer)

5th Year Type Combination (Modified)  
(Howitzer-Mortar)

Guns Used In: Type 91 10 cm Howitzer  
Improved 14th Year Type 10 cm Howitzer

Remarks: The Improved 14th Year Type Howitzer can use  
either of the above fuzes; Type 91 Howitzer uses  
only the 10 cm Howitzer type.

Diameter: 105 mm

Designation: Type 98 Substitute Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 15.800 kg

Weight and Type of Filling: Fine grain powder

Fuzing: Type 98 Instantaneous-Short Delay (Howitzer)

Guns Used In: Type 91 10 cm Howitzer

Remarks: Projectile same as 14th Year Type Substitute

Diameter: 105 mm

Designation: 14th Year Type Substitute Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 15.860 kg

Weight and Type of Filling: Fine grain powder

Fuzing: 10th Year Type AA Time

Guns Used In: 14th Year Type 10 cm AA Gun

Remarks: Equipment Class - 4

Diameter: 105 mm

Designation: 14th Year Type Substitute Projectile A

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 15.880 kg

Weight and Type of Filling: Fine grain powder

Fuzing: 5th Year Type Combination (Modified) (Gun)  
or (Howitzer-Mortar)

Guns Used In: Type 92 10 cm Gun      Type 38 10 cm Gun  
14th Year Type 10 cm Gun  
7th Year Type 10 cm Gun

Remarks: Rotating band: 

*Diameter:* 105 mm

*Designation:* 14th Year Type Substitute Projectile B

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:* 15.710 kg

*Weight and Type of Filling:* Fine grain powder

*Fuzing:* Type 88 Instantaneous (Gun) or (Howitzer-Mortar)  
Type 88 Short Delay (Gun)

*Guns Used In:*

Type 38 10 cm Gun  
7th Year Type 10 cm Gun  
14th Year Type 10 cm Gun  
Type 92 10 cm Gun  
Type 91 10 cm Howitzer  
Improved 14th Year Type 10 cm Howitzer

*Remarks:* Type A Fuze adapter (brass)  
Type 91 and Improved 14th Year Type 10 cm  
Howitzers take Howitzer-Mortar fuzes only.

Diameter: 105 mm

Designation: Type 87 Target Projectile, Red

Color and Markings: (赤) painted on projectile

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 12.420 kg

Weight and Type of Filling:

Fuzing: 10th Year Type AA Time (Low muzzle velocity)  
Type 88 Long-pointed AA

Guns Used In: 14th Year Type 10 cm AA Gun

Remarks: Rotating band:   
Equipment Class - 4

Diameter: 105 mm

Designation: Type 87 Target Projectile, White

Color and Markings: (白) painted on projectile

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 12.420 kg

Weight and Type of Filling:

Fuzing: 10th Year Type AA Time (Low muzzle velocity)

Guns Used In: 14th Year Type 10 cm AA Gun

Remarks: Equipment Class - 4

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Diameter: 105 mm

Designation: Type 95 Incendiary Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

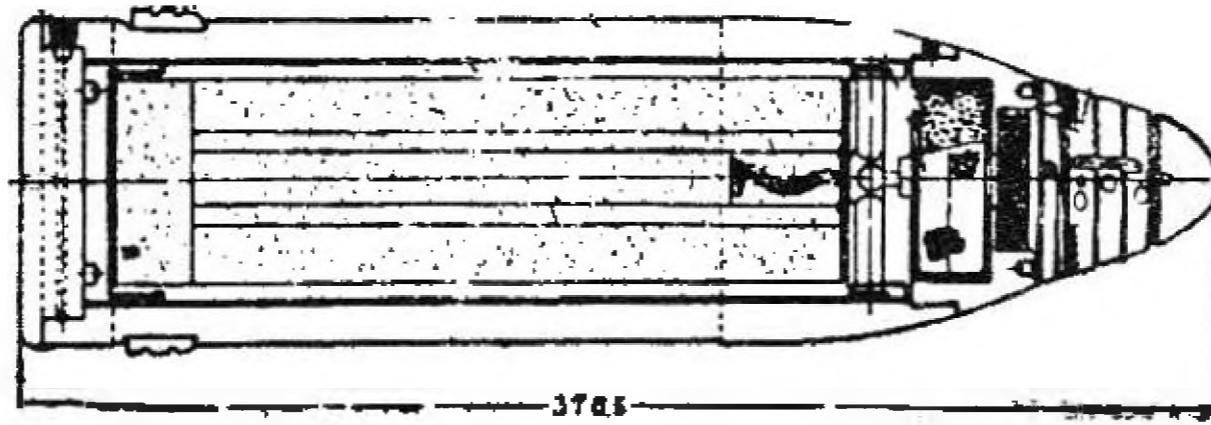
Projectile Weight: 16.000 kg

Weight and Type of Filling: Incendiary compound - 538 gm  
Bursting charge - 110 gm

Fuzing: 5th Year Type Combination (Modified) (10 cm Howitzer)  
5th Year Type Combination (Modified)  
(Howitzer-Mortar)

Guns Used In: Type 91 10 cm Howitzer  
Improved 14th Year Type 10 cm Howitzer

Remarks: The Improved 14th Year Type Howitzer can use  
either of the above fuzes; Type 91 Howitzer uses  
only the 10 cm Howitzer type.



Diameter: 105 mm

Designation: Type 95 Incendiary Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 16.000 kg

Weight and Type of Filling: Incendiary compound - 538 gm  
Bursting charge - 110 gm

Fuzing: 5th Year Type Combination (Modified) (Gun)  
5th Year Type Combination (Modified) (TN: 36 secs.  
handwritten)

Guns Used In: 14th Year Type 10 cm Gun  
Type 92 10 cm Gun  
Type 38 10 cm Gun

Remarks:

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Diameter: 105 mm

Designation: 14th Year Type Smoke Projectile

Color and Markings:

Projectile Length: 425.5 mm

Projectile Length With Fuze:

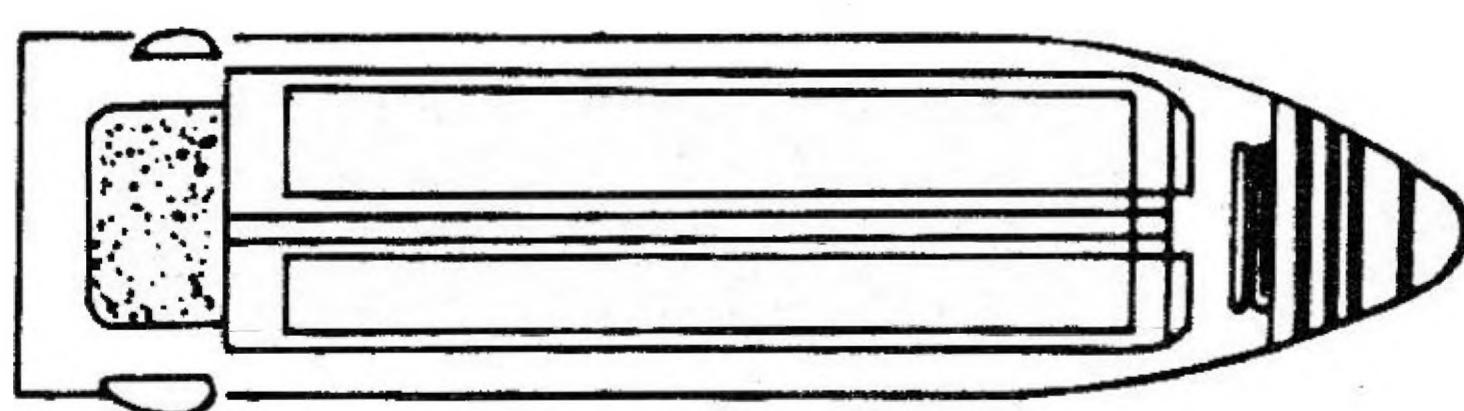
Projectile Weight: 16.170 kg

Weight and Type of Filling: Fine grain powder - 130 gm  
W.P. - 2.570 kg

Fuzing: 5th Year Type Combination (Modified) (Gun)  
5th Year Type Combination (Modified) (TN: 36 secs.  
handwritten)

Guns Used In: Type 38 10 cm Gun  
14th Year Type 10 cm Gun

Remarks:



Diameter: 105 mm

Designation: AP-HE Projectile A,B

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 416.7 mm

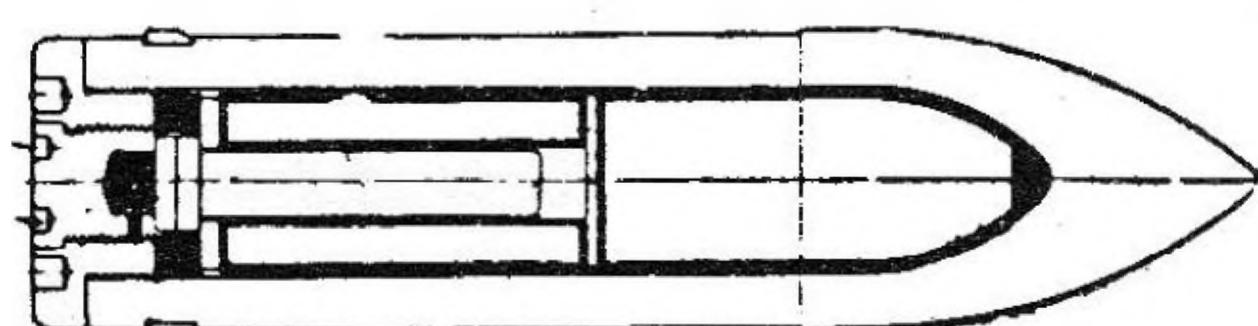
Projectile Weight: 18.040 kg

Weight and Type of Filling: TNT - 1.020 kg

Fuzing: Type 88 Small Base (Gun)

Guns Used In: Type 38 10 cm Gun

Remarks: ONAYAKU is also listed as a filler



*Diameter:* 105 mm

*Designation:* AP-HE Projectile C

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:* 18.040 kg

*Weight and Type of Filling:* TNT - 1.500 kg

*Fuzing:* Type 88 Small Base (Gun)

*Guns Used In:* 7th Year Type 10 cm Gun

*Remarks:* Same as AP-HE Shell A except for rotating band  
*Rotating band:*

*Diameter:* 105 mm

*Designation:* Cast Iron AP-HE Projectile A,B

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:* 408.0 mm

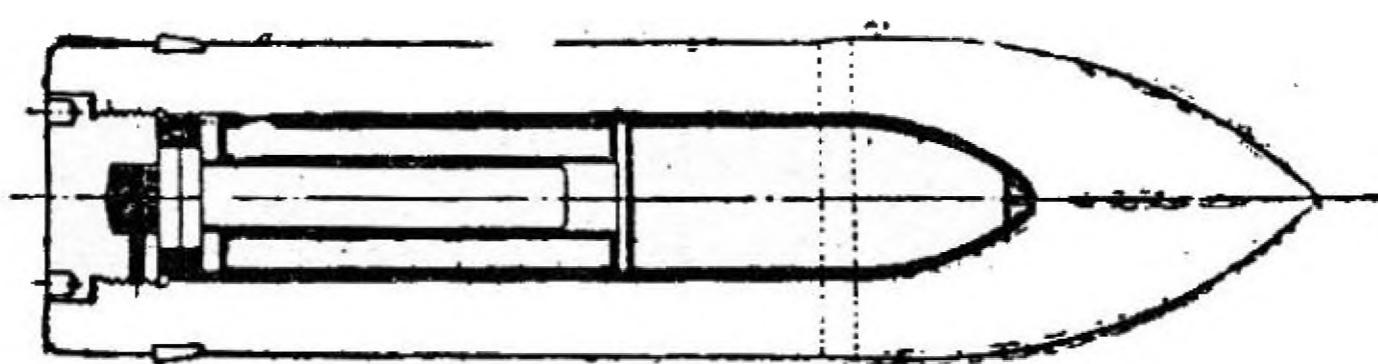
*Projectile Weight:* 18.230 kg

*Weight and Type of Filling:* TNT - 590 gm

*Fuzing:* A: Type 88 Small Base  
B: Type 88 Mk. 2 Small Base

*Guns Used In:* Type 38 10 cm Gun

*Remarks:* ONAYAKU is also listed as a filler



*Diameter:* 105 mm

*Designation:* Cast Iron AP-HE Projectile C

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

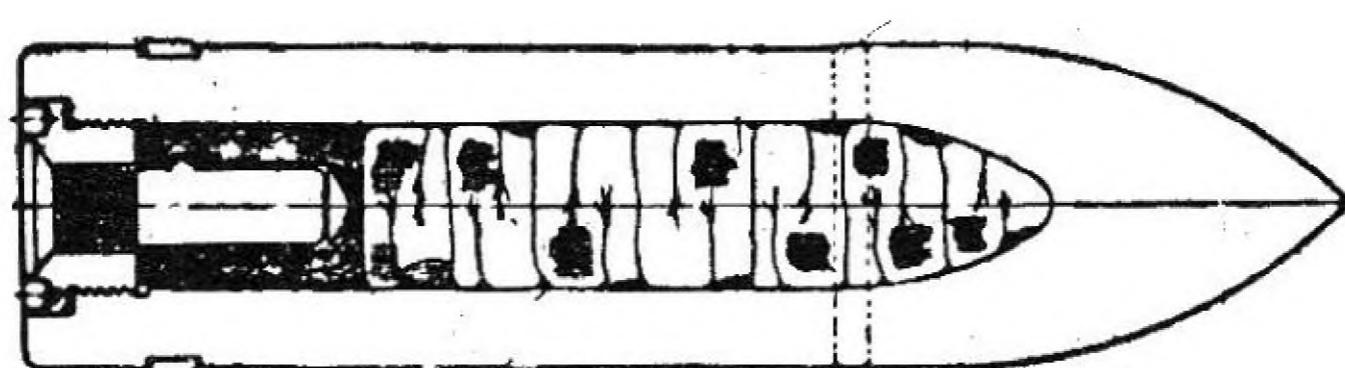
*Projectile Weight:* 17.770 kg

*Weight and Type of Filling:* Fine grain powder

*Fuzing:* Type 88 Mk. 2 Small Base

*Guns Used In:* Type 38 10 cm Gun

*Remarks:*



Diameter: 105 mm

Designation: Cast Iron AP-HE Projectile D

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 18.230 kg

Weight and Type of Filling: TNT - 1.500 kg

Fuzing: Type 88 Small Base (Gun)

Guns Used In: 7th Year Type 10 cm Gun

Remarks: Same as AP-HE Shell A except for rotating band  
Rotating band:

Diameter: 105 mm

Designation: Chilled AP-HE Projectile A,B,C

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 88 Mk. 2 Small Base

Guns Used In: Type 38 10 cm Gun

Remarks:

Diameter: 105 mm

Designation: Type 95 AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 400 mm

Projectile Weight: 15.910 kg

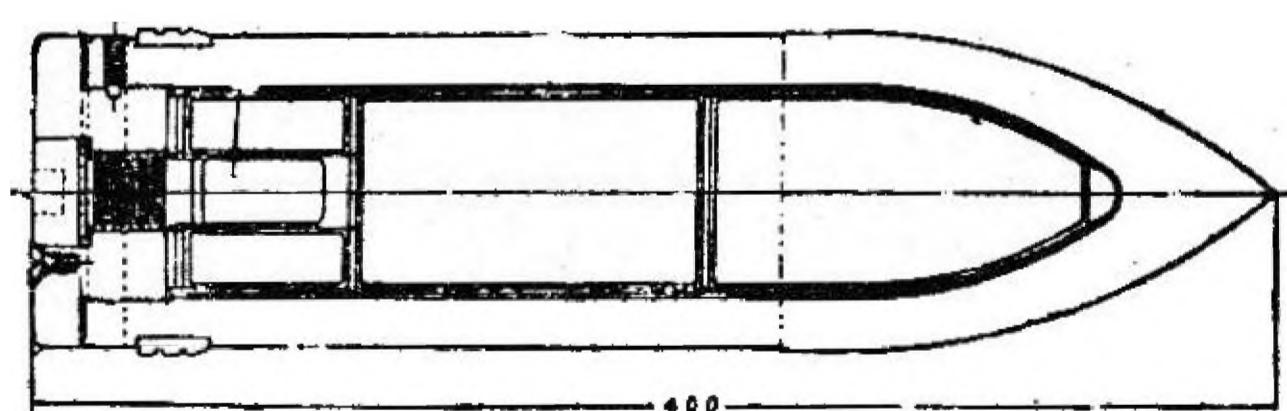
Weight and Type of Filling: ONAYAKU

Fuzing: Type 95 Small AP Base

Guns Used In:

Type 91 10 cm Howitzer  
Improved 14th Year Type 10 cm Howitzer  
Type 92 10 cm Gun  
14th Year Type 10 cm Gun  
Type 38 10 cm Gun

Remarks:



*Diameter:* 105 mm

*Designation:* 14th Year Type AP-HE Projectile

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* 5th Year Type Combination (Modified) (Gun)  
or (Howitzer-Mortar)

*Guns Used In:* Type 38 10 cm Gun

*Remarks:*

Diameter: 105 mm

Designation: Type 38 Shrapnel Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 398.3 mm

Projectile Weight: 18.000 kg

Weight and Type of Filling: Fine grain powder - 155 gm

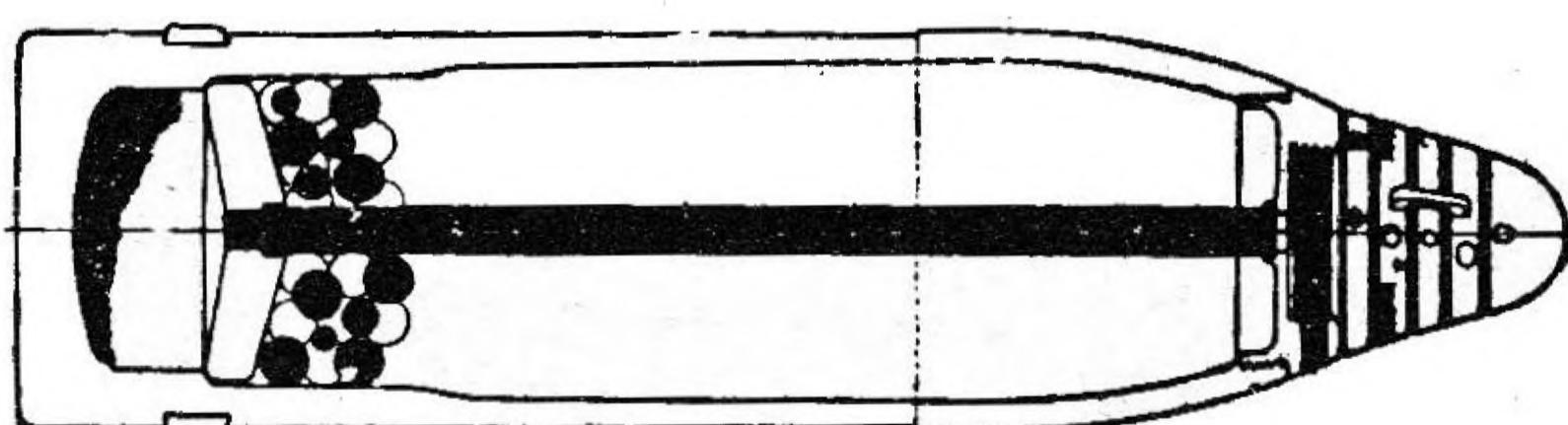
Fuzing:

5th Year Type Combination (Modified) (Gun)  
or (Howitzer-Mortar)

5th Year Type Combination (Modified)  
(TN: 36 sec. handwritten)

Guns Used In: Type 38 10 cm Gun  
7th Year Type 10 cm Gun

Remarks: Rotating band: 



*Diameter:* 105 mm

*Designation:* Type 95 Shrapnel Projectile

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:* 364.5 mm

*Projectile Weight:* 16.760 kg

*Weight and Type of Filling:* Fine grain powder - 170 gm

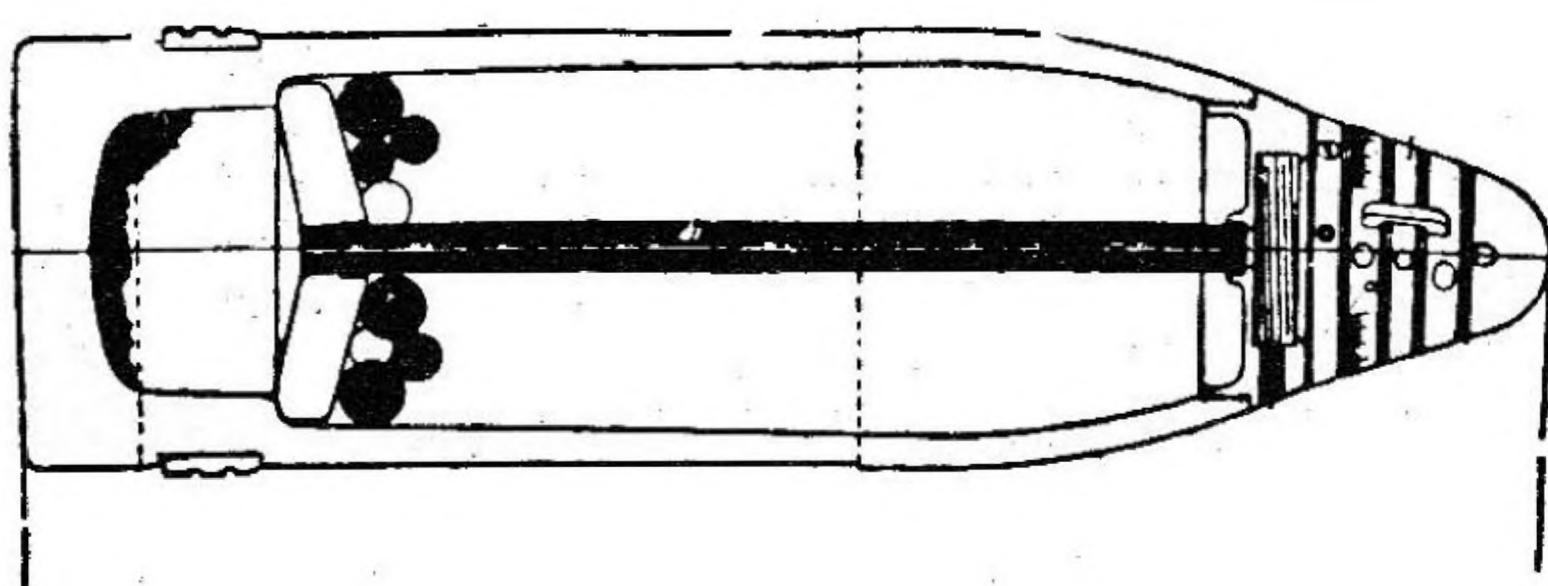
*Fuzing:*

5th Year Type Combination (Modified)  
(10 cm Howitzer)

5th Year Type Combination (Modified)  
(Howitzer-Mortar)

*Guns Used In:* Type 91 10 cm Howitzer  
Improved 14th Year Type 10 cm Howitzer

*Remarks:* Rotating band: 



Diameter: 105 mm

Designation: 14th Year Type Shrapnel Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 364.5 mm

Projectile Weight: 16.760 kg

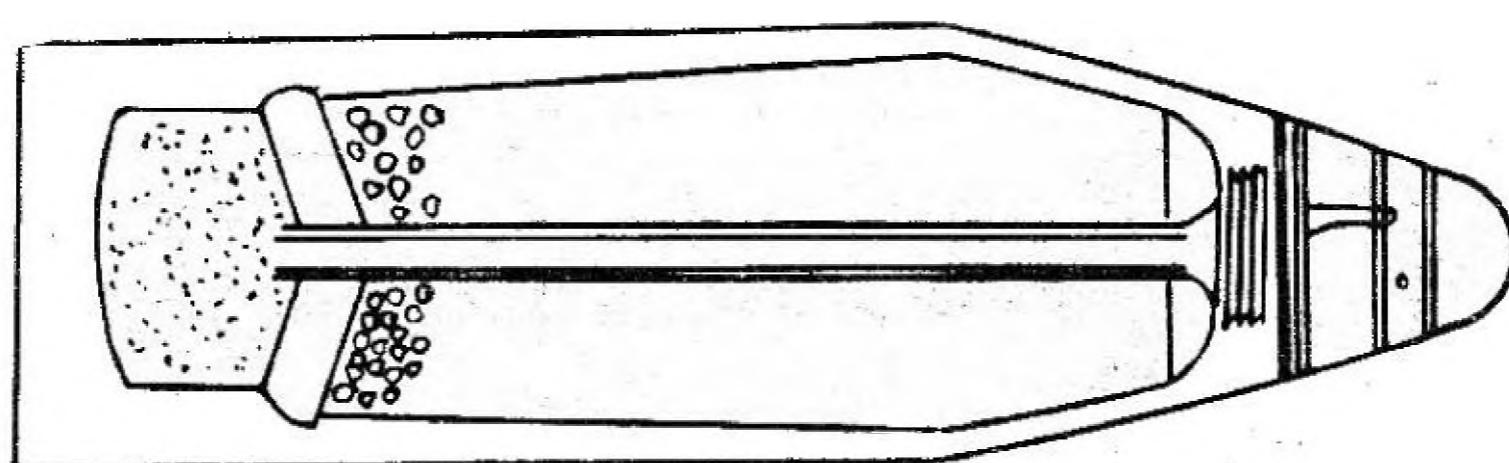
Weight and Type of Filling:

Fuzing: 5th Year Type Combination (Modified) (Gun)  
or (Howitzer-Mortar)

Guns Used In:

7th Year Type 10 cm Gun  
Type 92 10 cm Gun  
14th Year Type 10 cm Gun  
Type 38 10 cm Gun  
Krupp 25 Cal Gun

Remarks:



*Diameter:* 105 mm

*Designation:* HE Projectile

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

*Weight and Type of Filling:* Picric acid

*Fuzing:* 14th Year Type Small Instantaneous Nose (Howitzer)  
14th Year Type Small Short Delay (Howitzer)

*Guns Used In:* 14th Year Type 10 cm Howitzer

*Remarks:*

*Diameter:* 105 mm

*Designation:* Type 91 Semi-steel HE Projectile

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:* 456.3 mm

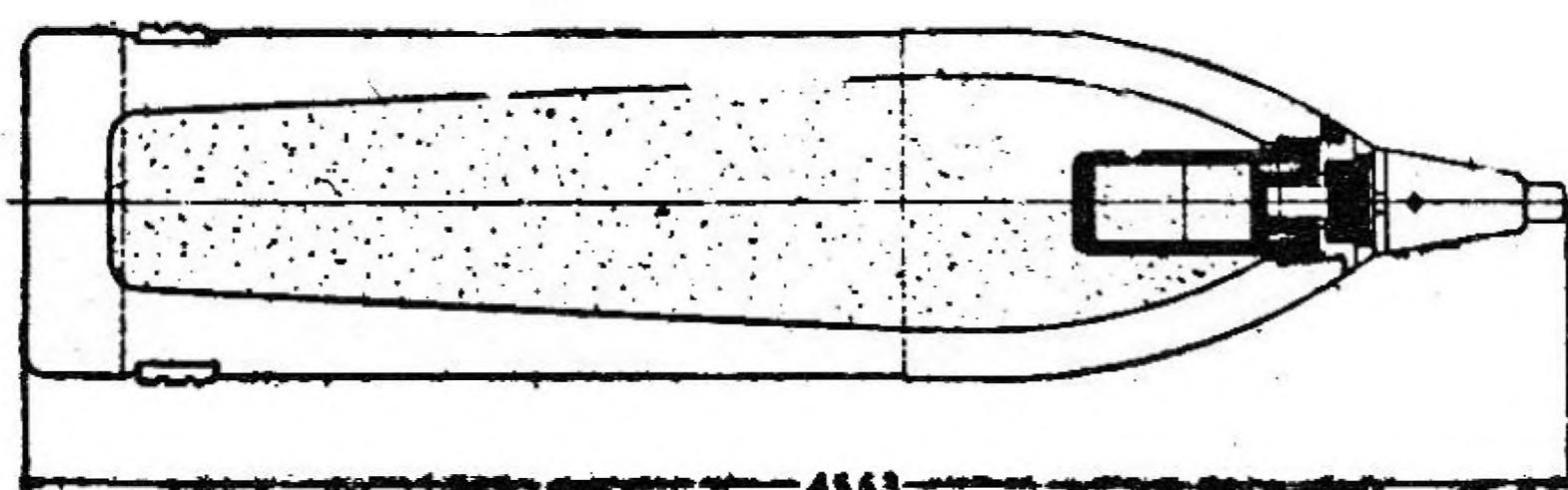
*Projectile Weight:* 16.00 kg

*Weight and Type of Filling:* TNT

*Fuzing:* Type 88 Instantaneous (Gun) or (Howitzer-Mortar)  
Type 88 Short Delay (Gun)

*Gun Used In:* 14th Year Type 10 cm Gun  
Type 38 10 cm Gun  
Type 92 10 cm Gun

*Remarks:* Class A 40 gm booster tube



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Diameter: 105 mm

Designation: Type 91 Semi-steel Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling: TNT - 1.740 kg

Fuzing: Type 88 - Instantaneous (Gun) or  
(Howitzer-Mortar)

Type 88 - Short Delay (Gun)

Guns Used In: 14th Year Type 10 cm Gun  
Type 38 10 cm Gun

Remarks:

Diameter: 105 mm

Designation: Type 91 Semi-steel Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 486.3 mm

Projectile Weight: 16.000 kg

Weight and Type of Filling: TNT - 1.790 kg

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)  
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: Type 91 10 cm Howitzer  
Improved 14th Year Type 10 cm Howitzer  
Type 92 10 cm Gun

Remarks:

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Diameter: 105 mm

Designation: Type 91 HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 480.8 mm

Projectile Weight: 16.000 kg

Weight and Type of Filling: TNT - 2.270 kg

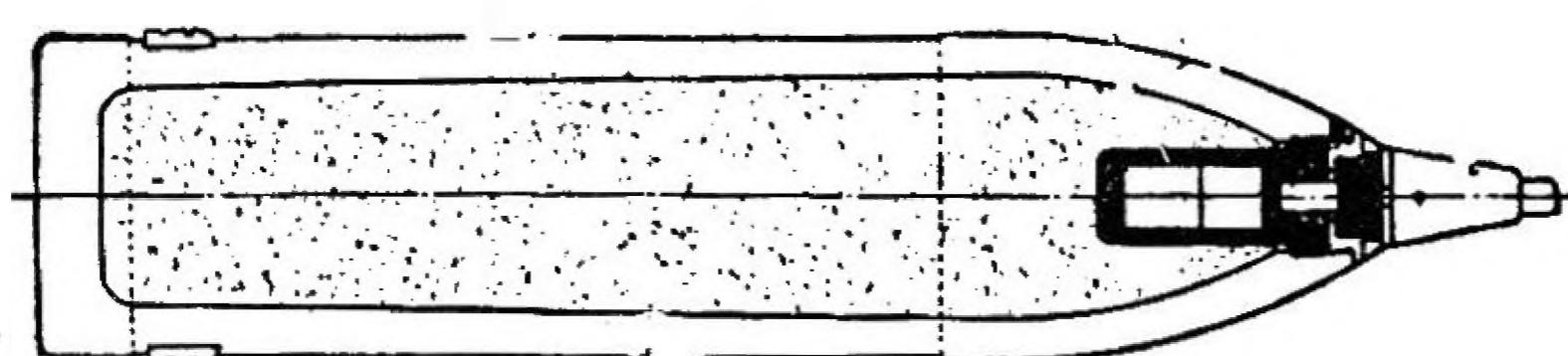
Fuzing: Type 88 Instantaneous (Gun) or  
(Howitzer-Mortar)  
Type 88 Short Delay (Gun)

Guns Used In: 14th Year Type 10 cm Gun

Type 38 10 cm Gun

Type 92 10 cm Gun

Remarks:



Diameter: 105 mm

Designation: Type 91 HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 480.8 mm

Projectile Weight: 16.000 kg

Weight and Type of Filling: TNT - 2.270 kg

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)  
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: Type 91 10 cm Howitzer

Improved 14th Year Type 10 cm Howitzer

Remarks: Class A 40 gm booster  
Excluding fuze, same as used in Types 92,  
14th Year, and 38 10 cm Guns  
ANGAYAKU may be substituted as a filler, and  
when this is done the characters are painted  
in white on the projectile.

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*Diameter:* 105 mm

*Designation:* Type 92 HE Projectile

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:* 480.8 mm

*Projectile Weight:* 16.000 kg

*Weight and Type of Filling:*

*Fuzing:* Type 88 Instantaneous (Gun) or  
(Howitzer-Mortar)

Type 88 Short Delay (Gun)

*Guns Used In:* Type 92 10 cm Gun

*Remarks:*

JAPANESE PROJECTILES.  
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Diameter: 105 mm

Designation: Type 98 HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 16.000 kg

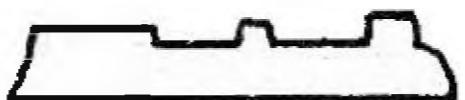
Weight and Type of Filling: TNT - 2.27 kg

Fuzing:

Type 98 Instantaneous-Short Delay  
(Howitzer)

Type 88 Instantaneous-Short Delay  
(Inf Gun-Howitzer)

Guns Used In: Type 91 10 cm Howitzer

Remarks: Rotating band:   
ANGAYAKU and HEINEIYAKU are listed as  
substitute fillers.

Diameter: 105 mm

Designation: 14th Year Type HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 480.8 mm

Projectile Weight: 16.000 kg

Weight and Type of Filling: TNT - 2.270 kg

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)  
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: Type 91 10 cm Howitzer  
Improved 14th Year Type 10 cm Howitzer

Remarks: Picric acid booster



Diameter: 105 mm

Designation: 14th Year Type HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 480.8 mm

Projectile Weight: 16.000 kg

Weight and Type of Filling: TNT - 2.270 kg

Fuzing: Type 88 Instantaneous (Gun) or  
(Howitzer-Mortar)

Type 88 Short Delay (Gun)

Guns Used In: 14th Year Type 10 cm Gun  
Type 38 10 cm Gun

Remarks:

Diameter: 105 mm

Designation: 14th Year Type Semi-steel HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 456.3 mm

Projectile Weight: 16.000 kg

Weight and Type of Filling: TNT - 1.790 kg

Fuzing: Type 88 Instantaneous (Gun) or  
(Howitzer-Mortar)

Type 88 Short Delay (Gun)

Guns Used In: 14th Year Type 10 cm Gun  
Type 38 10 cm Gun

Remarks: Picric acid booster



Diameter: 105 mm

Designation: 14th Year Type Semi-steel HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 456.3 mm

Projectile Weight: 16.000 kg

Weight and Type of Filling: TNT - 1.790 kg

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)  
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: Type 91 10 cm Howitzer  
Improved 14th Year Type 10 cm Howitzer

Remarks:

Diameter: 105 mm

Designation: Type 1 HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling: TNT - 2.200 kg

Fuzing: Type 1 Instantaneous-Short Delay  
(Howitzer-Mortar)

Guns Used In: Type 91 10 cm Howitzer

Remarks:

Diameter: 105 mm

Designation: Type 1 Long-pointed AA Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 15.80 kg

Weight and Type of Filling: TNT

Fuzing: Type 100 Mechanical Time (Gun)

Guns Used In: 14th Year Type 10 cm AA Gun

Remarks: Equipment Class - 1

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Diameter: 105 mm

Designation: Type 91 Long-pointed Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 557.3 mm

Projectile Weight: 15.760 kg

Weight and Type of Filling: TNT - 1.790 kg

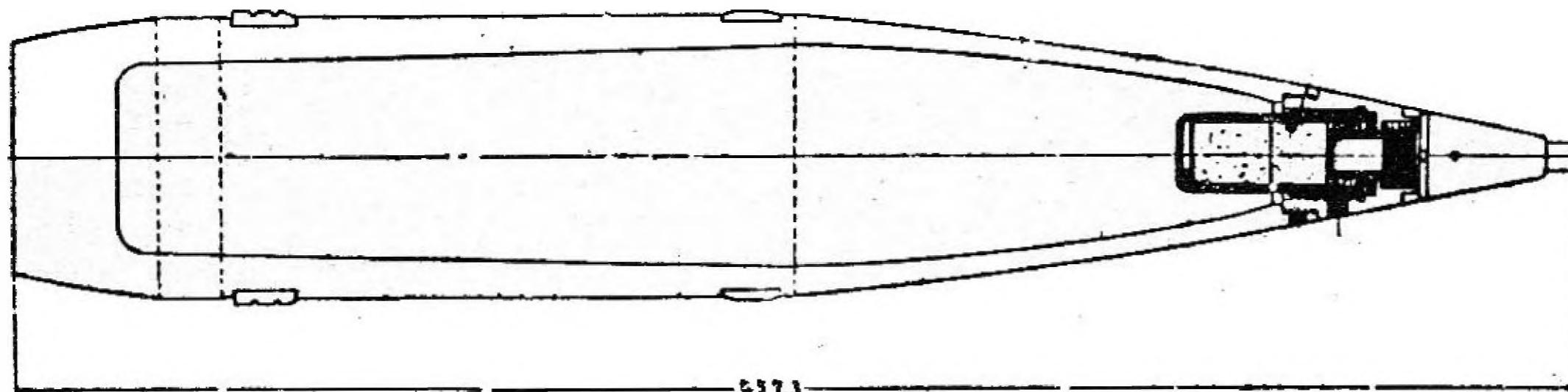
Fuzing: Type 88 Instantaneous (Gun) or  
(Howitzer-Mortar)

Guns Used In: 14th Year Type 10 cm Gun

Type 38 10 cm Gun

Type 92 10 cm Gun

Remarks:



Diameter: 105 mm

Designation: Type 91 Long-pointed Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 557.3 mm

Projectile Weight: 15.760 kg

Weight and Type of Filling: TNT - 2.520 kg

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)  
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: Type 91 10 cm Howitzer

Improved 14th Year Type 10 cm Howitzer

Remarks: Class A 40 gm booster

Except for fuze same projectile as used in  
Types 92, 14th Year, and 38 10 cm Guns

Effective Radius - 30 meters

*Diameter:* 105 mm

*Designation:* Type 91 Long-pointed AA Projectile

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

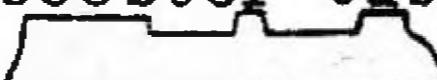
*Projectile Weight:* 16.000 kg

*Weight and Type of Filling:* TNT - 2.385 kg

*Fuzing:* Type 89 Long-pointed AA

*Guns Used In:* 14th Year Type 10 cm AA Gun

*Remarks:* Class A 40 gm booster tube

Rotating band: 

Equipment Class - 1

Diameter: 105 mm

Designation: Type 95 Long-pointed Projectile

Color and Markings:

Projectile Length:

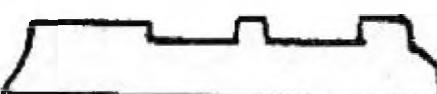
Projectile Length With Fuze:

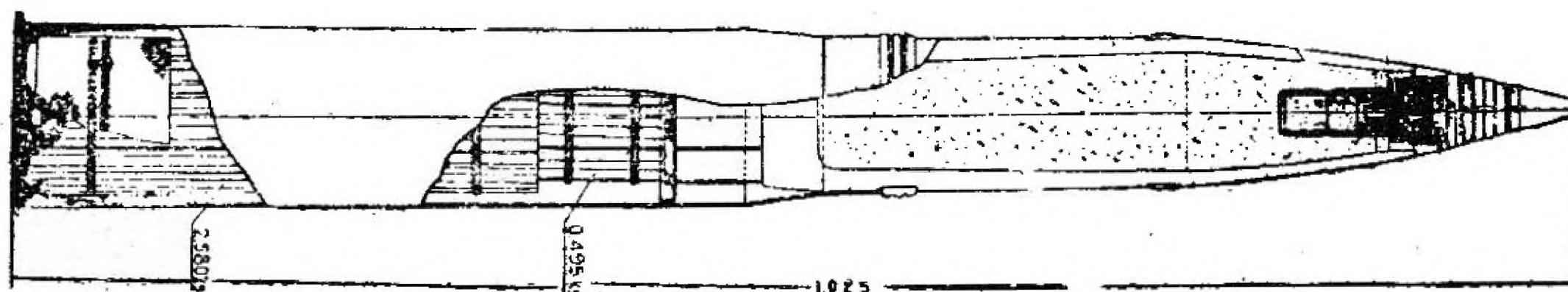
Projectile Weight: 15.760 kg

Weight and Type of Filling: TNT - 2.520 kg

Fuzing: Type 88 Instantaneous (Gun)  
Type 88 Short Delay (Gun)

Guns Used In: 14th Year Type 10 cm Gun  
Type 38 10 cm Gun  
Type 92 10 cm Gun

Remarks: Rotating band:   
Class A 40 gm booster tube  
Effective Radius - 30 meters



Diameter: 105 mm

Designation: Type 95 Long-pointed Projectile

Color and Markings:

Projectile Length:

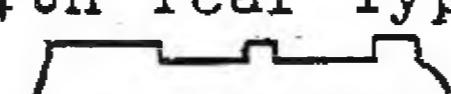
Projectile Length With Fuze:

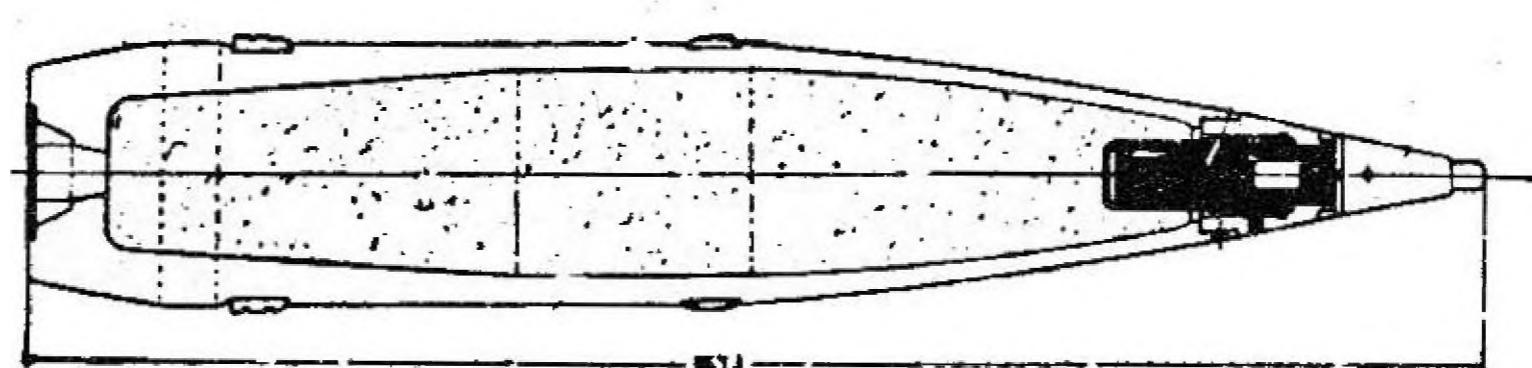
Projectile Weight: 15.760 kg

Weight and Type of Filling: TNT - 2.520 gm

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)  
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: Type 91 10 cm Howitzer  
14th Year Type 10 cm Howitzer  
Improved 14th Year Type 10 cm Howitzer

Remarks: Rotating band:   
HEINEIYAKU and SHOTOYAKU are listed as  
substitute fillers  
Improved 14th Year Type can also use Gun type f



Diameter: 105 mm

Designation: 14th Year Type Semi-steel Long-pointed  
Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 484.3 mm

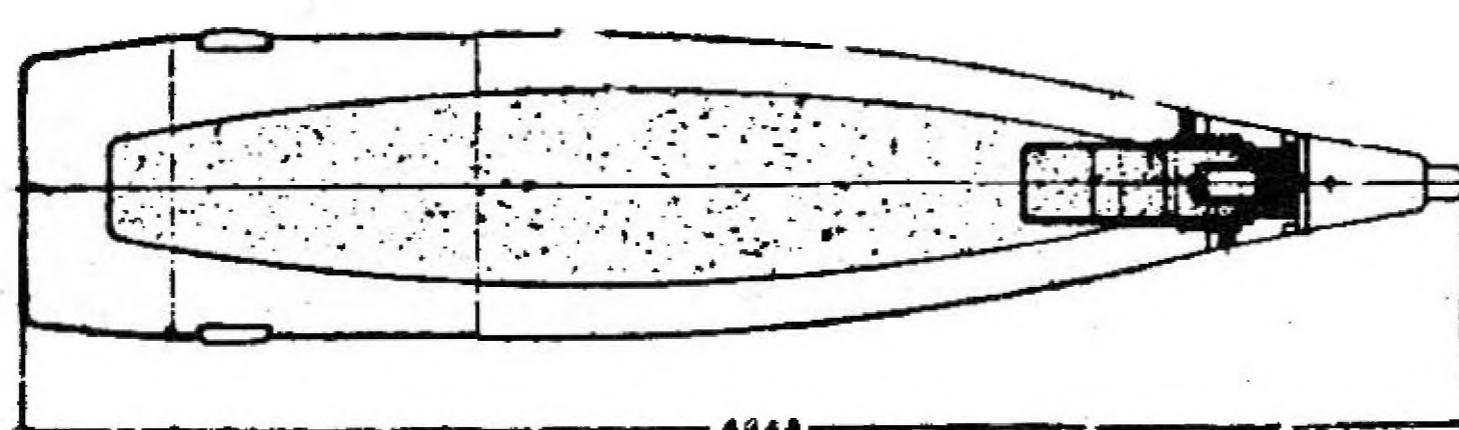
Projectile Weight: 16.000 kg

Weight and Type of Filling: TNT - 1.160 kg

Fuzing: Type 88 Instantaneous (Gun) or  
(Howitzer-Mortar)  
Type 88 Short Delay (Gun)

Guns Used In: Type 38 10 cm Gun  
14th Year Type 10 cm Gun  
Type 92 10 cm Gun  
Type 91 10 cm Howitzer

Remarks: Picric acid booster



Diameter: 120 mm

Designation: Type 96 Improved Substitute Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 20.0 kg

Weight and Type of Filling:

Fuzing: Dummy

Guns Used In: Type 38 12 cm Howitzer

Remarks: Equipment Class - 4

Diameter: 120 mm

Designation: Type 88 Substitute Projectile A, B, F, H

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: A, F: 19.89 kg  
B, H: 19.87 kg

Weight and Type of Filling:

Fuzing: 5th Year Type Combination (Modified)  
(Howitzer-Mortar)

Guns Used In: Type 38 12 cm Howitzer

Remarks: Equipment Class - 4

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Diameter: 120 mm

Designation: AP-HE Projectile A,B

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 20.000 kg

Weight and Type of Filling: Picric acid - 1.340 kg

Fuzing: Type 88 Small Base (Howitzer-Mortar)

Guns Used In: Type 38 12 cm Howitzer

Remarks: Equipment Class - 1

Diameter: 120 mm

Designation: Cast Iron AP-HE Projectile C,J

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: C - 19.628 kg  
J - 16.480 kg

Weight and Type of Filling: C - Fine grain powder 430 gm  
J - Fine grain powder 400 gm

Fuzing: C - Type 88 Small Base Fuze for Black Powder  
(Howitzer-Mortar)  
J - Type 88 Nose

Guns Used In: Type 38 12 cm Howitzer

Remarks: Equipment Class - 2

*Diameter:* 120 mm

*Designation:* Type 88 AP-HE Projectile A

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:* 20.00 kg

*Weight and Type of Filling:* TNT - 1.340 kg

*Fuzing:* Type 88 Small Base (Howitzer-Mortar)

*Guns Used In:* Type 38 12 cm Howitzer

*Remarks:* Equipment Class - 1

Diameter: 120 mm

Designation: Shrapnel Projectile A

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling: Fine grain powder

Fuzing: 5th Year Type Combination (Modified) (TN: 36 secs.  
handwritten)

5th Year Type Combination (Modified) (Gun)

Guns Used In: Schneider Type 12 cm Rapid Fire Gun  
Krupp Type 12 cm 40 Cal Rapid Fire Gun

Remarks:

Diameter: 120 mm

Designation: Shrapnel Projectile A

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 20.000 kg

Weight and Type of Filling: Fine grain powder - 182 gm

Fuzing: 5th Year Type Combination (Modified)  
(Howitzer-Mortar)

Guns Used In: Type 38 12 cm Howitzer

Remarks: Equipment Class - 1

Diameter: 120 mm

Designation: Shrapnel Projectile B

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 20.000 kg

Weight and Type of Filling: Fine grain powder 182 gm

Fuzing: 35 second Combination (Modified)  
5th Year Type Combination (Modified)  
(Howitzer-Mortar)

Guns Used In: Type 38 12 cm Howitzer

Remarks: Equipment Class - 3

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Diameter: 120 mm

Designation: Shrapnel Projectile B

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling: Fine grain powder

Fuzing:

Type 88 18 second Combination

5th Year Type Combination (Modified) (TN: 36 seconds  
handwritten)

5th Year Type Combination (Modified) (Gun)

32 Second Combination

Guns Used In: Schneider Type 12 cm Rapid Fire Gun  
Krupp Type 12 cm 40 Cal Rapid Fire Gun  
KODOSEI (TN: 鋼銅制) Canet Type 12 cm  
Rapid Fire Gun

Remarks:

*Diameter:* 120 mm

*Designation:* Shrapnel Projectile C

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:* 17.000 kg

*Weight and Type of Filling:* Fine grain powder - 220 gm

*Fuzing:* 5th Year Type Combination (Modified)  
(Howitzer-Mortar)

*Guns Used In:* Type 38 12 cm Howitzer

*Remarks:* Equipment Class - 2

*Diameter:* 120 mm

*Designation:* Type 97 Improved Semi-steel HE Projectile A,B

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:* A: 16.73 kg  
B: 18.75 kg

*Weight and Type of Filling:* A: TNT - 1.44 kg  
B: TNT - 1.32 kg

*Fuzing:* Type 88 Instantaneous (Howitzer-Mortar)  
Type 88 Short Delay (Howitzer-Mortar)

*Guns Used In:* Type 38 12 cm Howitzer

*Remarks:* Equipment Class - 2

Diameter: 120 mm

Designation: Type 98 HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 20.00 kg

Weight and Type of Filling: TNT - 3.170 kg

Fuzing: Type 98 Instantaneous-Short Delay (Inf Howitzer)

Guns Used In: Type 38 12 cm Howitzer

Remarks: Equipment Class - 1

*Diameter:* 150 mm

*Designation:* Substitute Projectile

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* Inf. Mortar (Modified)

*Guns Used In:* Type 93 15 cm Inf Mortar

*Remarks:* Mk. 2, Model 3 Cartridge Case & Percussion Primer

*Diameter:* 150 mm

*Designation:* Substitute Projectile A

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:* 44.900 kg

*Weight and Type of Filling:* Fine grain powder

*Fuzing:* 5th Year Type Combination (Modified) (Gun)

*Guns Used In:* Type 89 15 cm Gun      7th Year Type 15 cm Gun  
                  Type 45 15 cm Gun      Type 90 15 cm Gun

*Remarks:* Equipment Class - 4

Diameter: 150 mm

Designation: Substitute Projectile A

Color and Markings:

Projectile Length: 438.2 mm

Projectile Length With Fuze:

Projectile Weight: 36.000 kg

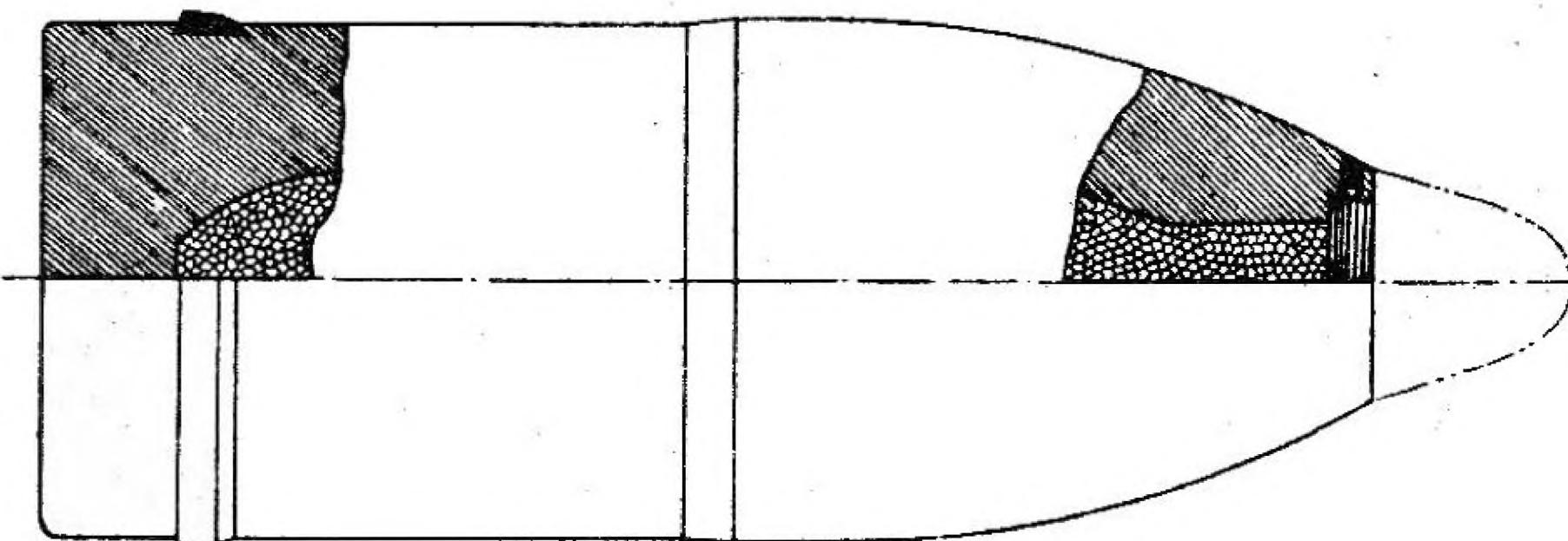
Weight and Type of Filling: Fine grain powder - 310 gm

Fuzing: 5th Year Type Combination (Modified)  
(Howitzer-Mortar)

Guns Used In:

4th Year Type 15 cm Howitzer  
Type 38 15 cm Howitzer  
Improved 4th Year Type 15 cm Howitzer  
Steel 15 cm Mortar

Remarks: Length also given as 436.7 mm  
Weight of fine grain powder also given as 850 gm  
Equipment Class - 4



Diameter: 150 mm

Designation: Improved Substitute Projectile A

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 35.800 kg

Weight and Type of Filling: Fine grain powder

Fuzing: 5th Year Type Combination (Modified)  
(Howitzer-Mortar)

Guns Used In: 4th Year Type 15 cm Howitzer  
Type 38 15 cm Howitzer  
Steel 15 cm Mortar

Remarks: Equipment Class - 4

Diameter: 150 mm

Designation: Substitute Projectile B

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 45.100 kg

Weight and Type of Filling: Fine grain powder

Fuzing: Type 90 Instantaneous-Short Delay (Gun)

Guns Used In: Type 89 15 cm Gun 7th Year Type 15 cm Gun  
Type 45 15 cm Gun Type 90 15 cm Gun

Remarks: This projectile fitted with Type C fuze  
adapter (bar steel)  
Equipment Class - 4

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Diameter: 150 mm

Designation: Substitute Projectile B

Color and Markings:

Projectile Length: 430 or 436 mm

Projectile Length With Fuze:

Projectile Weight: 36.000 kg

Weight and Type of Filling: Fine grain powder - 850 gm

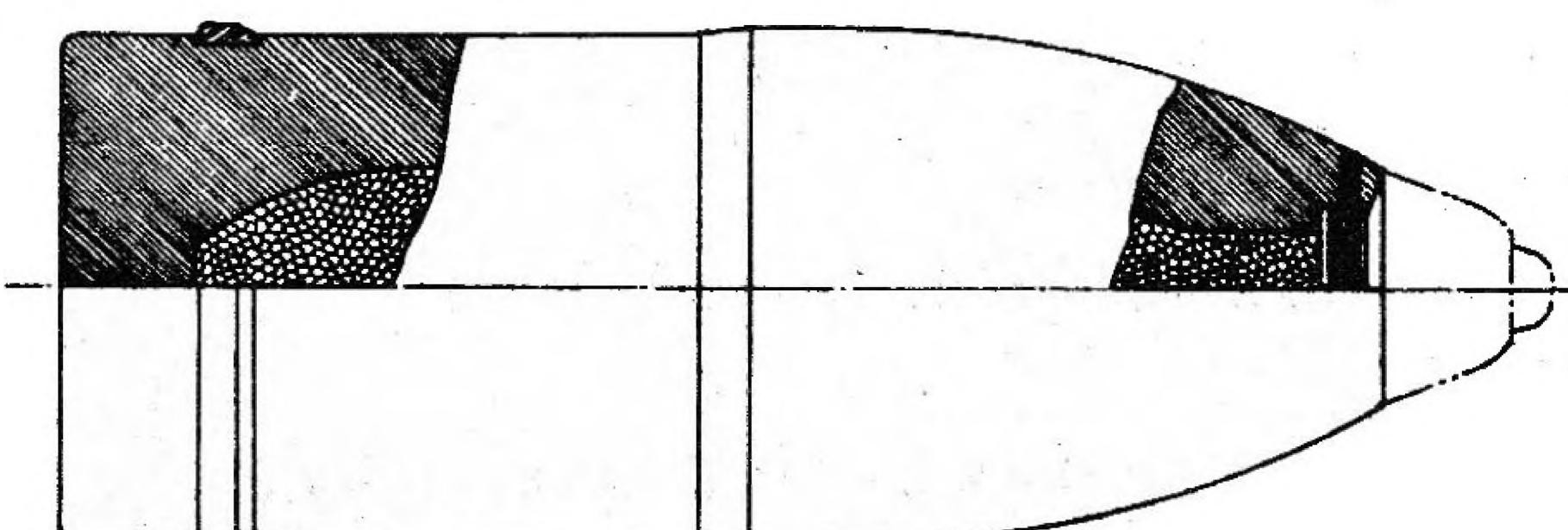
Fuzing: Type 88 Instantaneous (Howitzer-Mortar)  
Type 88 Short Delay (Howitzer-Mortar)  
5th Year Type Combination (Howitzer-Mortar)  
35 second Combination (Modified)

Guns Used In: 4th Year Type 15 cm Howitzer  
Type 38 15 cm Howitzer  
Improved 4th Year Type 15 cm Howitzer  
Steel 15 cm Mortar

Remarks: This projectile is fitted with Type A fuze

adapter (brass)

Equipment Class - 4



*Diameter:* 150 mm

*Designation:* Improved Substitute Projectile B

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:* 35.640 kg

*Weight and Type of Filling:* Fine grain powder

*Fuzing:* Type 88 Instantaneous (Howitzer-Mortar)  
Type 88 Short Delay (Howitzer-Mortar)

*Guns Used In:* 4th Year Type 15 cm Howitzer  
Type 38 15 cm Howitzer  
Steel 15 cm Mortar

*Remarks:* Projectile fitted with Type A fuze adapter  
(brass)  
Equipment Class - 4

*Diameter:* 150 mm

*Designation:* Substitute Projectile C

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:* 35.2 kg

*Weight and Type of Filling:*

*Fuzing:* Type 88 Flush Base

*Guns Used In:* 4th Year Type 15 cm Howitzer  
Type 38 15 cm Howitzer

*Remarks:* Equipment Class - 4

Diameter: 150 mm

Designation: Chilled AP Projectile (For Practice)

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 45.650 kg

Weight and Type of Filling: Sand

Fuzing: None

Guns Used In: SANKO (TN: 参克) Type Barbette 15 cm  
Mtn Gun

Remarks:

Diameter: 150 mm

Designation: Chilled AP Projectile A (For Practice)

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 51.000 kg

Weight and Type of Filling: Fine grain powder

Fuzing: Type 88 Small Base fuze for Black Powder

Guns Used In: Krupp Type 15 cm 35 Cal Gun

Remarks:

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**CONFIDENTIAL.**  
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Diameter: 150 mm

Designation: Chilled AP Projectile B (For Practice)

*Color and Markings:*

### Projectile Length:

### Projectile Length With Fuze:

Projectile Weight: 51.000 kg

*Weight and Type of Filling:* Fine grain powder

*Fuzing:* Type 88 Sea Coast Gun Base

*Guns Used In:* Krupp Type 15 cm 35 Cal Gun

*Remarks:*

Diameter: 150 mm

Designation: Substitute AP-HE Projectile

#### Color and Markings:

### Projectile Length:

### Projectile Length With Fuze:

Projectile Weight: 44.7 kg

*Weight and Type of Filling:*

Fuzing: Type 88 Small Base Fuze for Black Powder (Gun)

*Guns Used In:* Type 45 15 cm Gun  
7th Year Type 15 cm Gun  
Type 90 15 cm Gun

Remarks: Equipment Class - 4

Diameter: 150 mm

Designation: Shrapnel Projectile A (For Practice)

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 51.000 kg

Weight and Type of Filling: Sand

Fuzing: Dummy

Guns Used In: Krupp Type 15 cm 35 Cal Gun

Remarks: Formerly designated Steel Shrapnel

Diameter: 150 mm

Designation: Shrapnel Projectile B (For Practice)

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 39.000 kg

Weight and Type of Filling: Sand

Fuzing: Dummy

Guns Used In: Krupp Type 15 cm 35 Cal Gun

Remarks: Formerly designated Steel Shrapnel

Diameter: 150 mm

Designation: Type 96 Substitute Projectile A

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 35.840 kg

Weight and Type of Filling: Fine grain powder

Fuzing: 5th Year Type Combination (Modified)  
(Howitzer-Mortar)

Guns Used In: 4th Year Type 15 cm Howitzer  
Type 38 15 cm Howitzer  
Type 96 15 cm Howitzer Steel 15 cm Mortar

Remarks: One source notes this projectile "used  
extensively" in Type 96 Howitzer  
Equipment Class - 4

Diameter: 150 mm

Designation: Type 96 Substitute Projectile B

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 35.670 kg

Weight and Type of Filling: Fine grain powder

Fuzing: Type 88 Instantaneous  
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: 4th Year Type 15 cm Howitzer  
Type 38 15 cm Howitzer  
Type 96 15 cm Howitzer Steel 15 cm Mortar

Remarks: One source notes this projectile "used  
extensively" in Type 96 Howitzer  
Equipment Class - 4

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Diameter: 150 mm

Designation: Type 89 Illuminating Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 535.4 mm

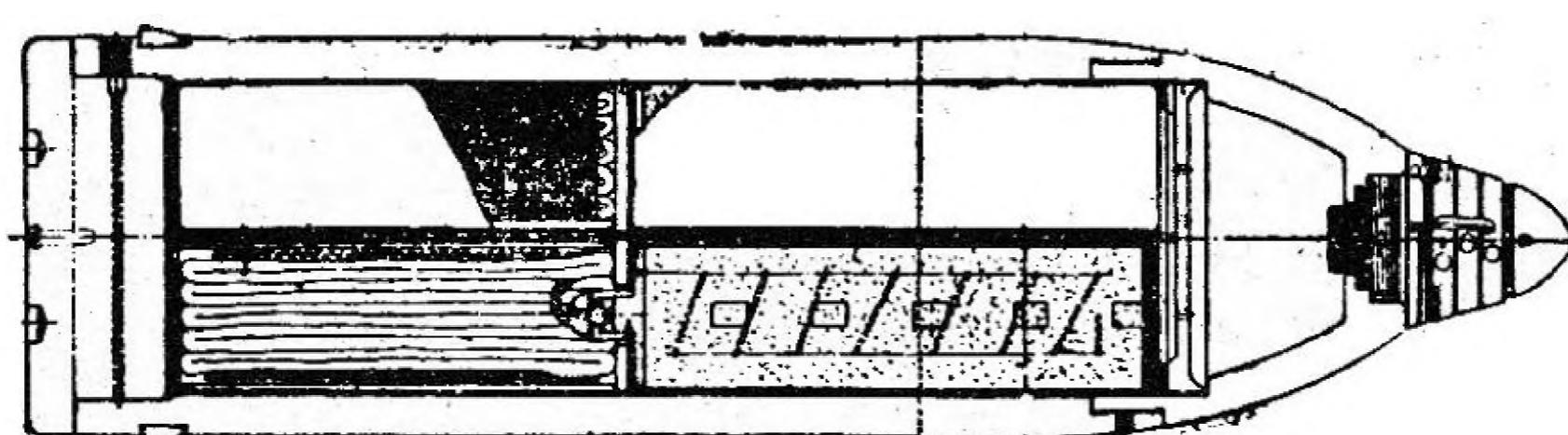
Projectile Weight: 36.500 kg

Weight and Type of Filling: Illuminating compound - 630 gm

Fuzing: 5th Year Type Combination (Modified)  
(Howitzer-Mortar)

Guns Used In: Type 45 15 cm Gun  
7th Year Type 15 cm Gun  
Type '90 15 cm Gun  
4th Year Type 15 cm Howitzer  
Type 38 15 cm Howitzer  
Steel 15 cm Mortar

Remarks: Equipment Class - 1  
Burning time - 50 seconds



Diameter: 150 mm

Designation: 11th Year Type Smoke Projectile

Color and Markings:

Projectile Length: 544.3 mm

Projectile Length With Fuze:

Projectile Weight: 33.3 kg

Weight and Type of Filling: TNT & picric acid - 1.090 kg

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)

Guns Used In: 4th Year Type 15 cm Howitzer

Remarks:

Diameter: 150 mm

Designation: 13th Year Type Smoke Projectile

Color and Markings:

Projectile Length: 487.8 mm

Projectile Length With Fuze: 544.6 mm

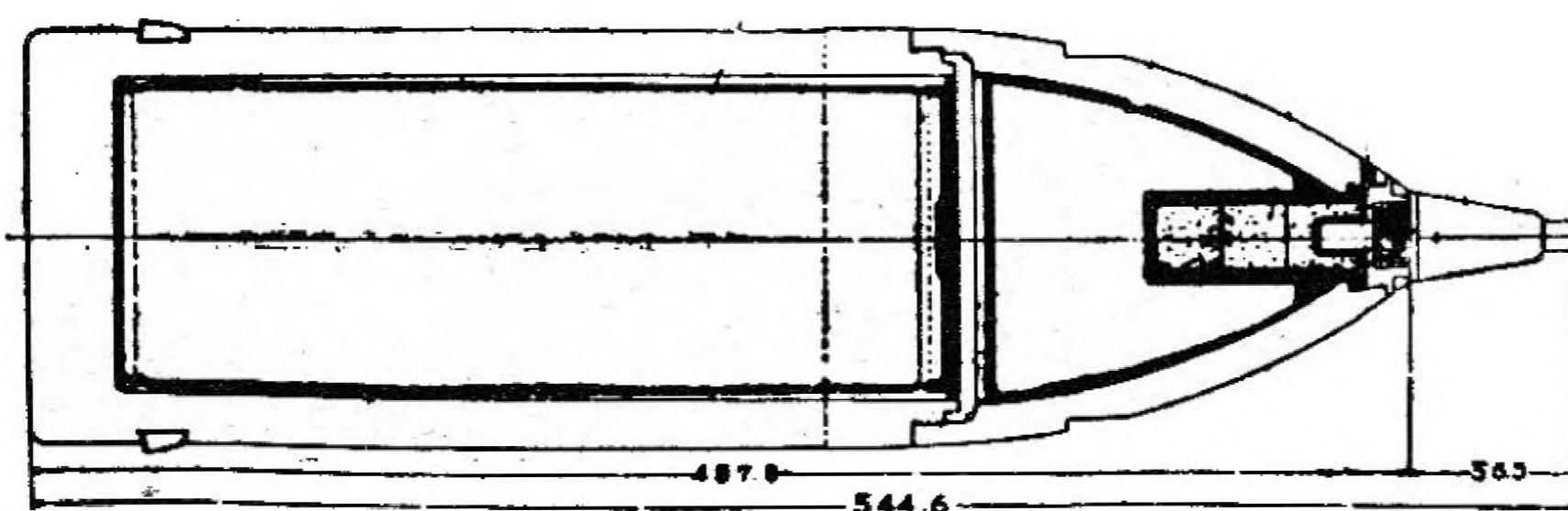
Projectile Weight: 33.000 kg

Weight and Type of Filling: W.P. - 4.500 kg  
Picric acid

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)

Guns Used In: 4th Year Type 15 cm Howitzer  
Type 38 15 cm Howitzer  
Steel 15 cm Mortar

Remarks: Equipment Class - 2  
Picric acid booster  
Smoke screen - 100 meters wide for approx.  
 $2\frac{1}{2}$  minutes



Diameter: 150 mm

Designation: AP Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 41.000 kg

Weight and Type of Filling: Fine grain powder

Fuzing: None

Guns Used In: Krupp Type 15 cm 35 Cal Gun

Remarks:

Diameter: 150 mm

Designation: Cast Iron AP Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 41.000 kg

Weight and Type of Filling: Fine grain powder

Fuzing: Type 88 Base Fuze for Black Powder (Gun)

Guns Used In: SHIKA (TN: Schneider-Creusot ?) Type 15 cm  
Rapid Fire Gun

Remarks:

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*Diameter:* 150 mm

*Designation:* Cast Iron AP-HE Projectile

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:* 41.000 kg

*Weight and Type of Filling:* Picric acid

*Fuzing:* Type 88 Small Base (Gun)

*Guns Used In:* SHIKA (TN: Schneider-Creusot ?) 15 cm  
Rapid Fire Gun

*Remarks:*

Diameter: 150 mm

Designation: Cast Iron AP-HE Projectile A,C,D,G,H

Color and Markings:

Projectile Length:

Projectile Length With Fuze: A,D,G: 445.7 mm

Projectile Weight: 36.000 kg

Weight and Type of Filling: (see Remarks)

Fuzing: A - 5th Year Type Small Base (Howitzer-Mortar)

A - Type 88 Small Base (Howitzer-Mortar)

C&G - Flush Base (Modification 2)

D&H - Type 88 Mk. 2 Small Base  
(Modification 2)

Guns Used In: Type 38 15 cm Howitzer

4th Year Type 15 cm Howitzer

Steel 15 cm Mortar

Remarks: Fuzing of projectiles D&H also given as Type 38  
Small Mk. 2 Base (Modification 2)

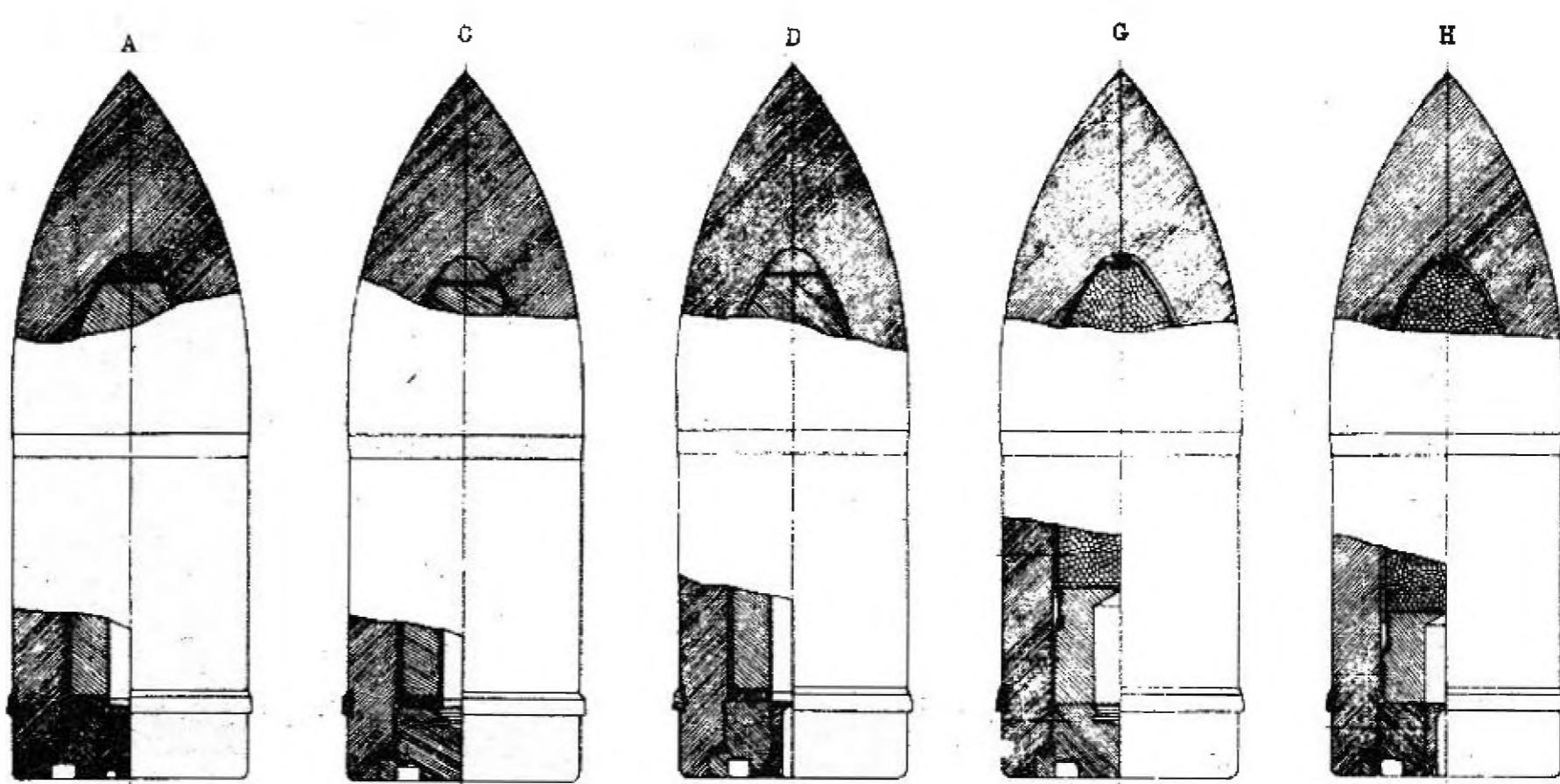
Filling: A,C,D: Picric acid - 1.53 kg

G,H : Fine grain powder - 1.25 kg

Filling of A & D also given as CHAOYAKU

One source gives filling of A,D as Picric acid,  
G as Fine grain powder. Weight: A - 1.68 kg,  
D - 1.65 kg, G - .76 kg

Equipment Class - 2



Diameter: 150 mm

Designation: Modified Cast Iron AP-HE Projectile  
HE (～), CHI (ち)

Color and Markings:

Projectile Length: 427 mm

Projectile Length With Fuze:

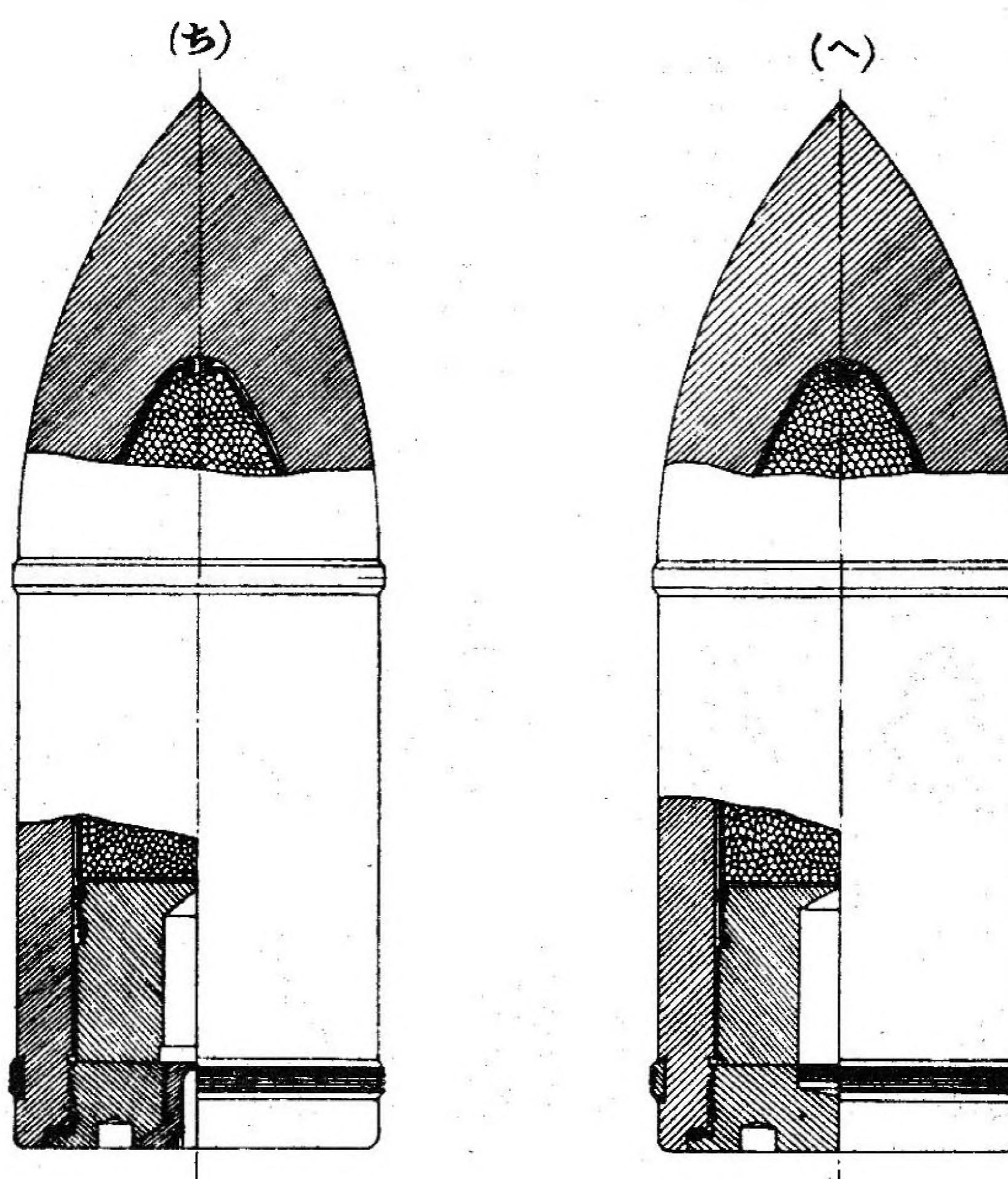
Projectile Weight: 36.0 kg

Weight and Type of Filling: Fine grain powder - 1.75 kg

Fuzing: HE: Flush Base (Modification 2)  
CHI: Type 38 Mk. 2 Small Base (Modification 2)

Guns Used In: Type 38 15 cm Howitzer

Remarks:



*Diameter:* 150 mm

*Designation:* Cast Iron AP-HE Projectile

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* Type 88 Base (Modification 2)

*Guns Used In:* 15 cm Artillery Mortar

*Remarks:* Screw type friction primer

Diameter: 150 mm

Designation: AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 583.5 mm

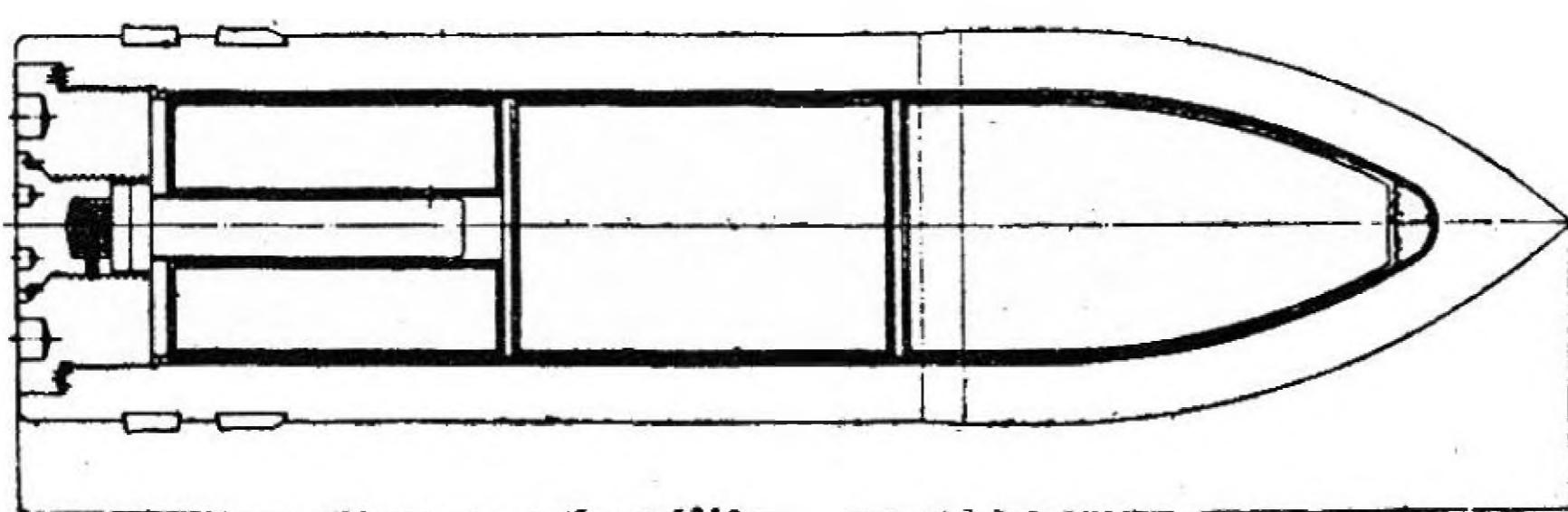
Projectile Weight: 44.910 kg

Weight and Type of Filling: TNT - 4.800 kg

Fuzing: Type 88 Small Base (Gun)

Guns Used In: Type 90 15 cm Gun  
7th Year Type 15 cm Gun  
SANKO (TN: 參克) Type Barbette  
15 cm Mtn Gun  
Type 45 15 cm Gun  
Type 89 15 cm Gun

Remarks: ONAYAKU, TNT and Picric acid listed as a  
substitute filler  
Equipment Class - 1



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CINCPAC-CINCPOA BULLETIN 85-45.

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Diameter: 150 mm

Designation: AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 445.7 mm

Projectile Weight: 36.000 kg

Weight and Type of Filling: CHAOYAKU 2.600 kg

Fuzing: Type 88 Small Base (Howitzer-Mortar)  
5th Year Type Small Base (Modified)  
(Howitzer-Mortar)

Guns Used In: 4th Year Type 15 cm Howitzer  
Type 38 15 cm Howitzer  
Improved 4th Year Type 15 cm Howitzer  
Steel 15 cm Mortar

Remarks: For 4th Year Type Howitzer, filling may be TNT  
Only Improved 4th Year Type Howitzer listed as  
using both Type 88 and 5th Year Type fuzes; the  
others listed only for Type 88.

Equipment Class - 2

JAPANESE PROJECTILES.  
CINCPAC-CINCPAO BULLETIN 85-45.

CONFIDENTIAL.  
30 APRIL 1945.

Diameter: 150 mm

Designation: AP-HE Projectile A

Color and Markings:

Projectile Length: 445.7 mm

Projectile Length With Fuze:

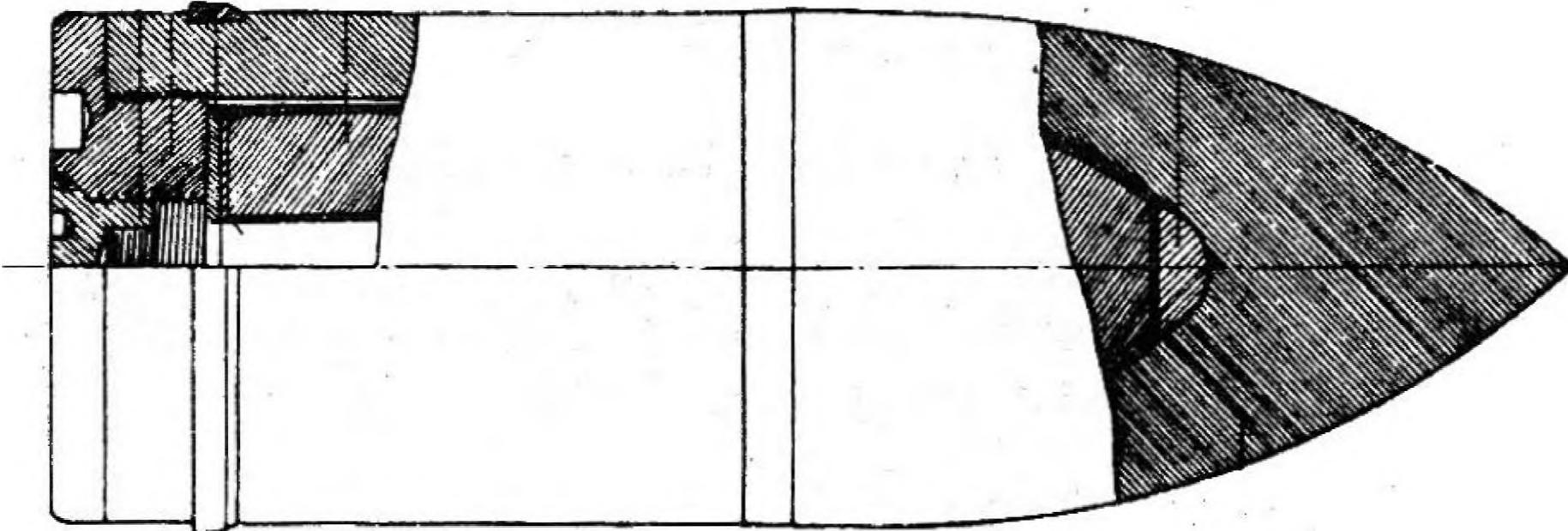
Projectile Weight: 36.000 kg

Weight and Type of Filling: Picric acid - 2.600 kg

Fuzing: 5th Year Type Small Base (Howitzer-Mortar)

Guns Used In: Type 38 15 cm Howitzer

Remarks:



Diameter: 150 mm

Designation: AP-HE Projectile A

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 41.000 kg

Weight and Type of Filling: Picric acid

Fuzing: Type 88 Small Base (Gun)

Guns Used In: SHIKA (TN: Schneider-Creusot ?) 15 cm  
Rapid Fire Gun

Remarks:

Diameter: 150 mm

Designation: Type 95 AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 445.7 mm

Projectile Weight: 35.880 kg

Weight and Type of Filling: TNT - 2.51 kg

Fuzing: Type 95 Medium AP Base (Howitzer-Mortar)

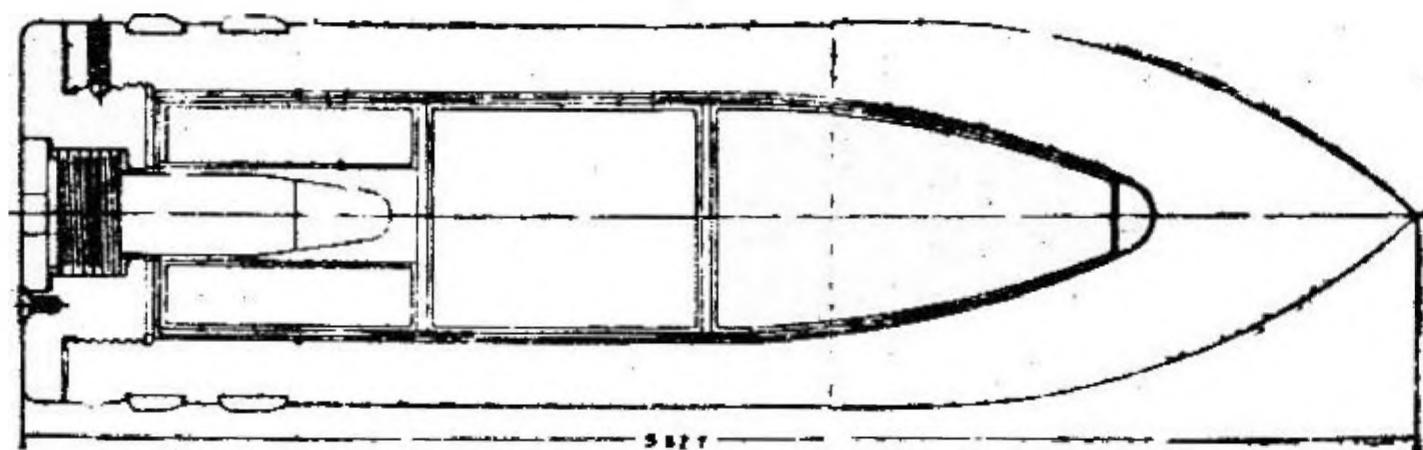
Guns Used In: 4th Year Type 15 cm Howitzer

Type 38 15 cm Howitzer

Type 96 15 cm Howitzer

Steel 15 cm Mortar

Remarks: Equipment Class - 1 for all weapons except  
Type 96, for which it is Class 4



Diameter: 150 mm

Designation: Type 95 AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 532.7 mm

Projectile Weight: 45.880 kg

Weight and Type of Filling: CNAYAKU

Fuzing: Type 95 Medium AP Base (Gun)

Guns Used In: Type 45 15 cm Gun 7th Year Type 15 cm Gun  
Type 90 15 cm Gun  
Type 89 15 cm Gun

Remarks: Equipment Class - 1

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Diameter: 150 mm

Designation: Shrapnel Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 483.4 mm

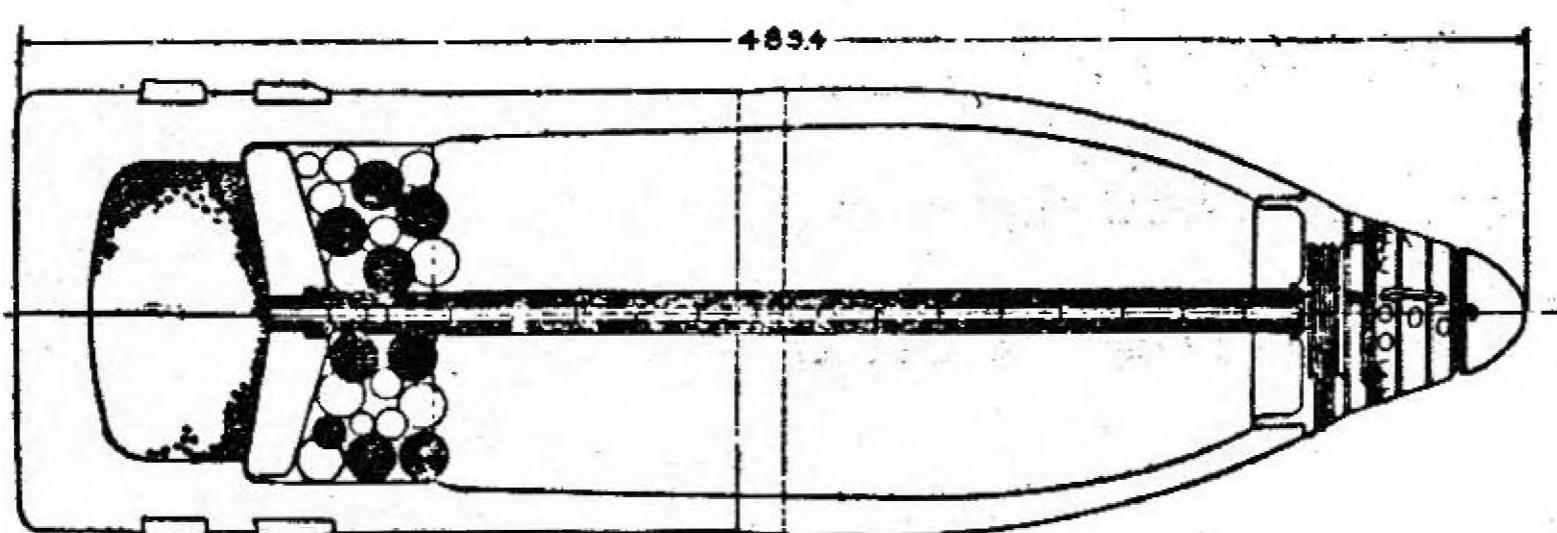
Projectile Weight: 44.900 kg

Weight and Type of Filling: Fine grain powder - 380 gm

Fuzing: 5th Year Type Combination (Modified) (Gun)

Guns Used In: Type 89 15 cm Gun 7th Year Type 15 cm Gun  
Type 45 15 cm Gun Type 90 15 cm Gun

Remarks: Equipment Class - 1



Diameter: 150 mm

Designation: Shrapnel Projectile A,B

Color and Markings:

Projectile Length: 380 mm

Projectile Length With Fuze: A - 438.2 mm  
B - 430.0 mm

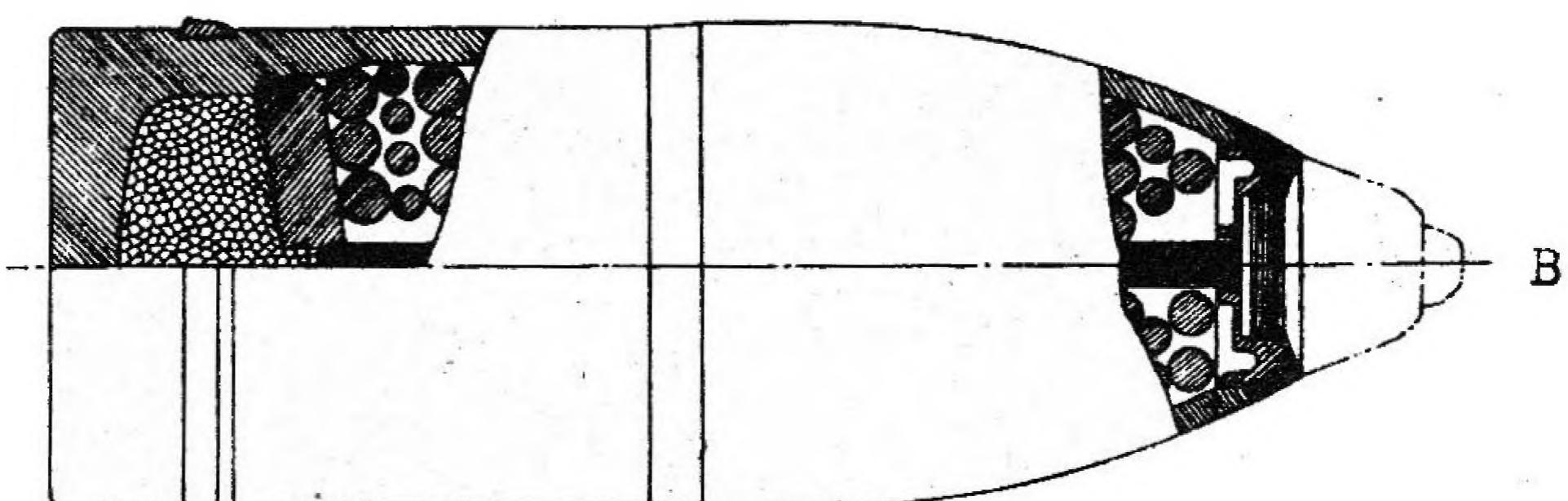
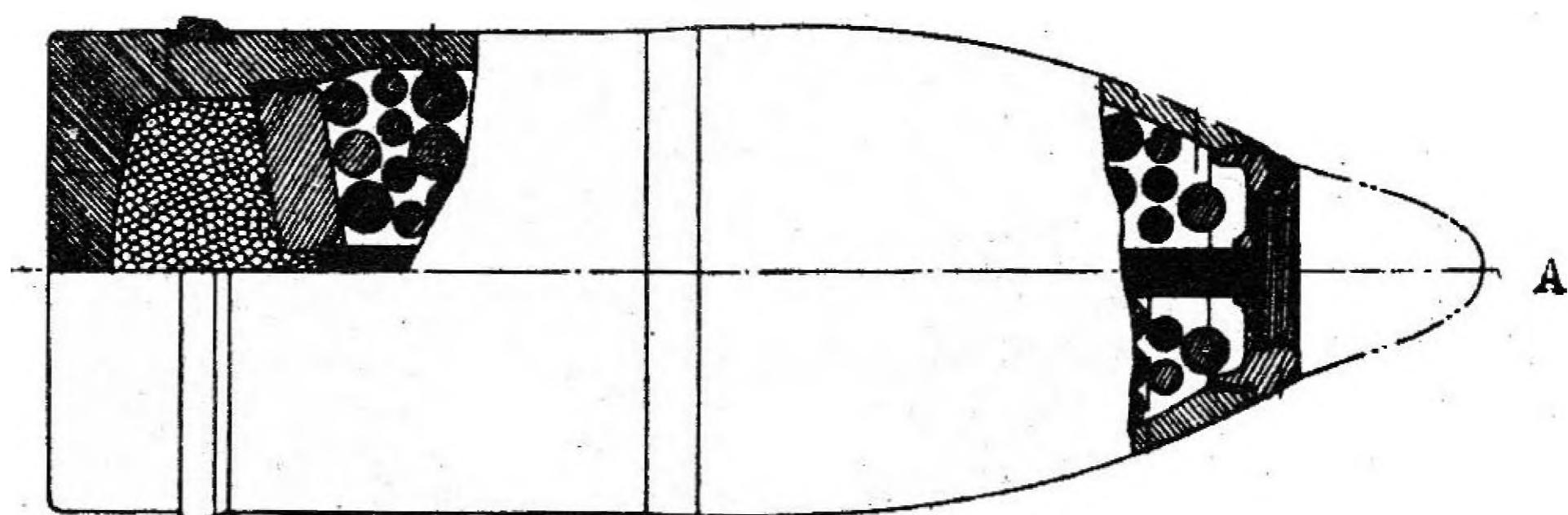
Projectile Weight: 36.0 kg

Weight and Type of Filling: Fine grain powder - 380 gm

Fuzing:

A&B: 5th Year Type Combination (Modified) (Howitzer-Mortar)  
B: Type 88 35 Second Combination (Modified)  
Guns Used In: Type 38 15 cm Howitzer Steel 15 cm Mortar  
Type 96 15 cm Howitzer  
4th Year Type 15 cm Howitzer

Remarks: Approximately 1050 pellets; weight of one  
approximately 16 gm  
Type of metal - No. 1 Brass  
Length of Projectile A also given as 436.7 mm;  
Projectile B as either 430 or 436  
Equipment Class - 1 for Type 38 and 4th Year Type  
Equipment Class - 4 for Type 96



Diameter: 150 mm

Designation: HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 88 Point Detonating  
Inf Mortar (Modified)

Guns Used In: 15 cm Artillery Mortar  
Type 93 15 cm Inf Mortar

Remarks: When used with 15 cm Artillery Mortar, projectile  
has screw type friction primer  
When used with Type 93 Inf Mortar, projectile has  
Mk. 2 Medium 3 cartridge case percussion primer

Diameter: 150 mm

Designation: HE Projectile A,B,C

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 51.000 kg

Weight and Type of Filling: Fine grain powder

Fuzing: A - Improved Krupp Type Impact, Modification 1  
B - Type 88 Point Detonating  
C - Improved Krupp Type Impact, Modification 1,2  
Guns Used In: Krupp Type 15 cm 35 Cal Gun

Remarks:

JAPANESE PROJECTILES.  
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Diameter: 150 mm

Designation: Type 92 HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 621.88 mm

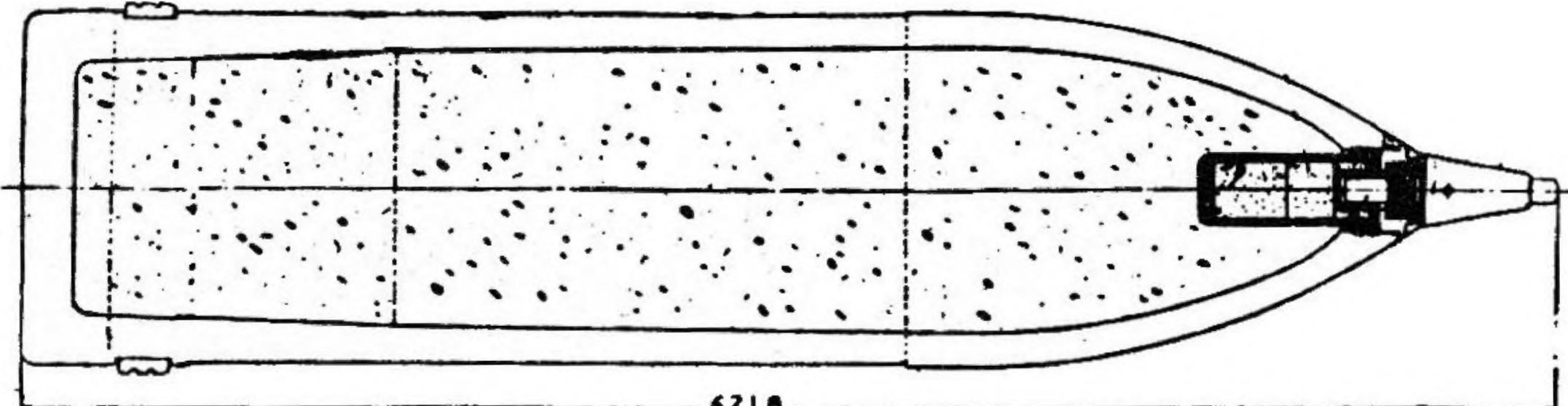
Projectile Weight: 36.0 kg

Weight and Type of Filling: TNT - 7.670 kg

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)  
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: Improved 4th Year Type 15 cm Howitzer  
4th Year Type 15 cm Howitzer  
Type 38 15 cm Howitzer  
Steel 15 cm Artillery Mortar  
Type 96 15 cm Howitzer

Remarks: Class A 40 gm booster  
Effective Radius - 35 meters  
Type 96 & Improved 4th Year Type Howitzers  
use Type 40 cartridge case primer  
Equipment Class - 1 for all weapons except  
Type 96, for which it is Class 4  
ANGAYAKU may be substituted for the TNT, &  
the characters are painted in white on  
the projectile. The weight then becomes  
35.6 kg and the SHOU 40 gm booster tube  
is used.



*Diameter:* 150 mm

*Designation:* Type 92 HE Projectile, Modif. 1

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* Type 88 Instantaneous (Howitzer-Mortar)  
Type 88 Short Delay (Howitzer-Mortar)

*Guns Used In:* Improved 4th Year Type 15 cm Howitzer

*Remarks:*

Diameter: 150 mm

Designation: Type 93 HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 654.8 mm

Projectile Weight: 40.600 kg

Weight and Type of Filling: TNT - 4.770 kg

Fuzing: Type 90 Instantaneous-Short Delay (Gun)

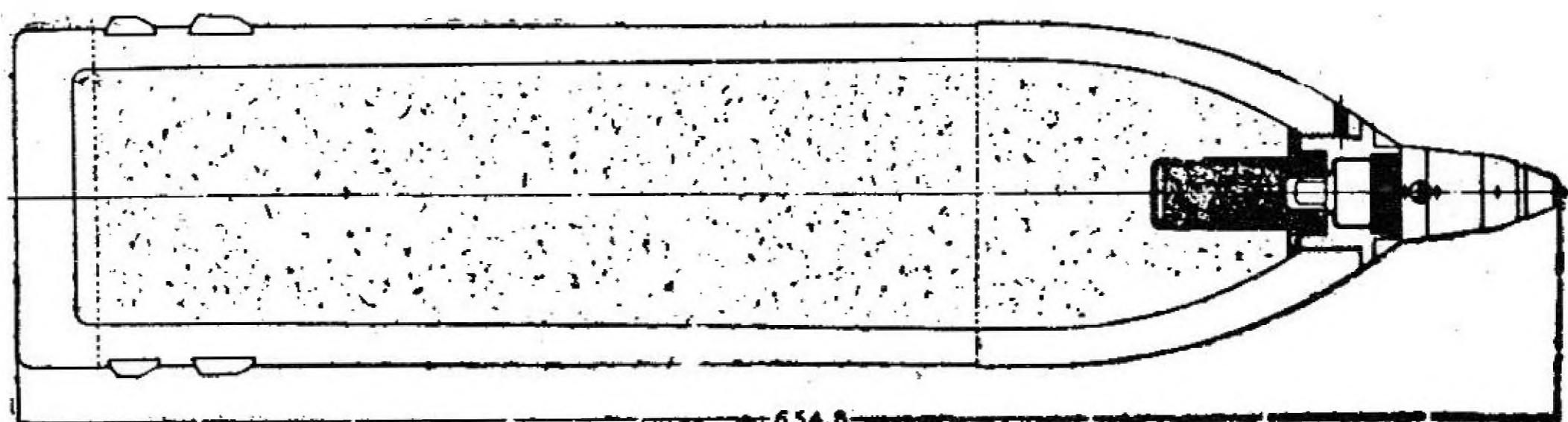
Guns Used In: Type 89 15 cm Gun      Type 90 15 cm Gun  
Type 45 15 cm Gun  
7th Year Type 15 cm Gun

Remarks: ANGAYAKU may be substituted for the TNT. In this event the total weight is given as 39.990 kg, the characters are painted in white on the projectile and the SHOU 40 gm booster is used.

Equipment Class - 1

Class A 40 gm booster

Effective Radius - 60 meters



Diameter: 150 mm

Designation: 10th Year Type Semi-steel HE Projectile

Color and Markings:

Projectile Length: 487.5 mm

Projectile Length With Fuze: 544.3 mm

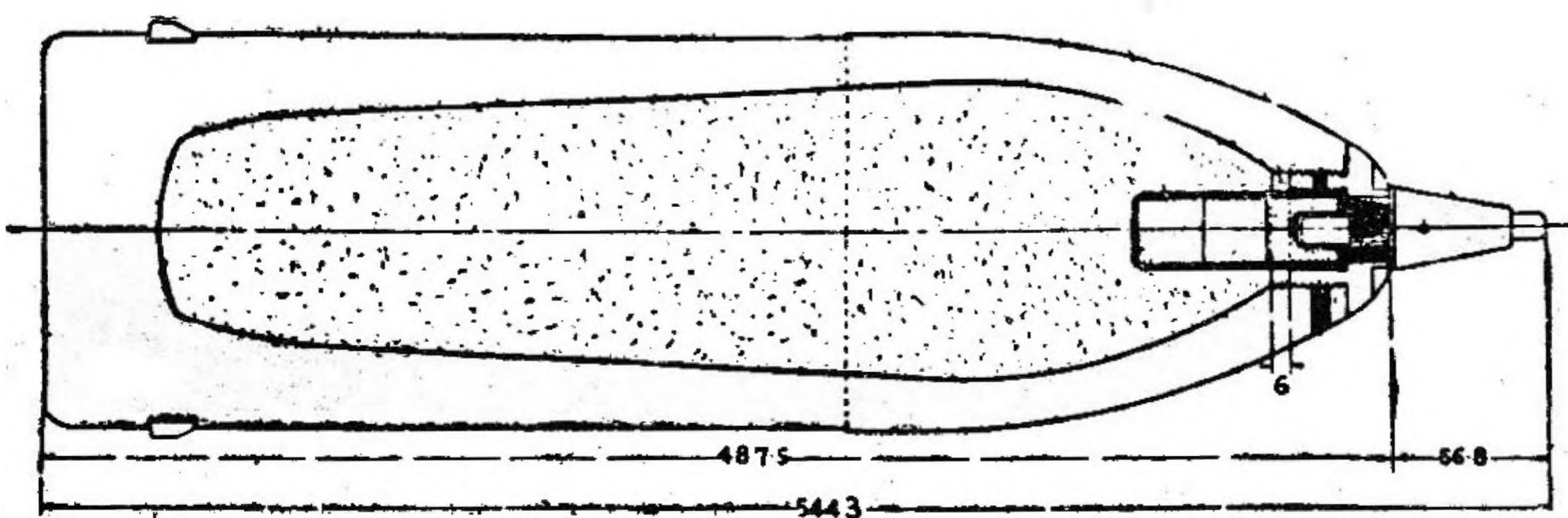
Projectile Weight: 36.000 kg

Weight and Type of Filling: TNT - 4.550 kg

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)  
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: Steel 15 cm Mortar  
4th Year Type 15 cm Howitzer  
Type 38 15 cm Howitzer

Remarks: Picric acid booster  
Equipment Class - 2



Diameter: 150 mm

Designation: 11th Year Type HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 649.6 mm

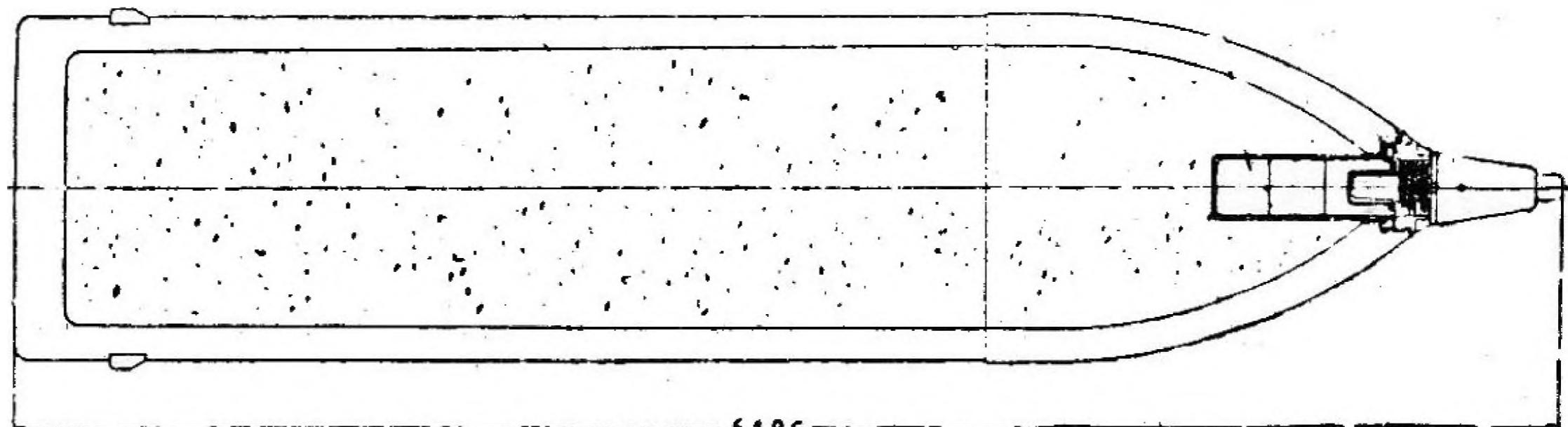
Projectile Weight: 36.400 kg

Weight and Type of Filling: TNT, Amatol - 8.800 kg

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)  
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: 4th Year Type 15 cm Howitzer  
Type 38 15 cm Howitzer  
Improved 4th Year Type 15 cm Howitzer  
Steel 15 cm Mortar

Remarks: Equipment Class - 2  
Picric acid booster



649.6

Diameter: 150 mm

Designation: Type 96 HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 25.650 kg

Weight and Type of Filling: TNT - 5.865 kg

Fuzing: Type 93 Instantaneous-Short Delay (Mortar)

Guns Used In: Type 96 Medium Mortar

Remarks: Equipment Class - 1

Diameter: 150 mm

Designation: Type 96 HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 39.480 kg

Weight and Type of Filling: TNT

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)  
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: Type 96 15 cm Howitzer

Remarks: HEINEIYAKU, SHOTOYAKU, and ANGAYAKU are listed  
as substitute fillers  
Equipment Class - 4

Diameter: 150 mm

Designation: Type 97 HE Projectile Modified

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 35.800 kg

Weight and Type of Filling: TNT

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)  
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: Steel 15 cm Mortar

Remarks:

Diameter: 150 mm

Designation: Type 90 Long-pointed Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 613.0 mm

Projectile Weight: 32.74 kg

Weight and Type of Filling: TNT, Amatol - 6.40 kg

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)  
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: 4th Year Type 15 cm Howitzer

Remarks:

Diameter: 150 mm

Designation: Type 92 Long-pointed Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 636.8 mm

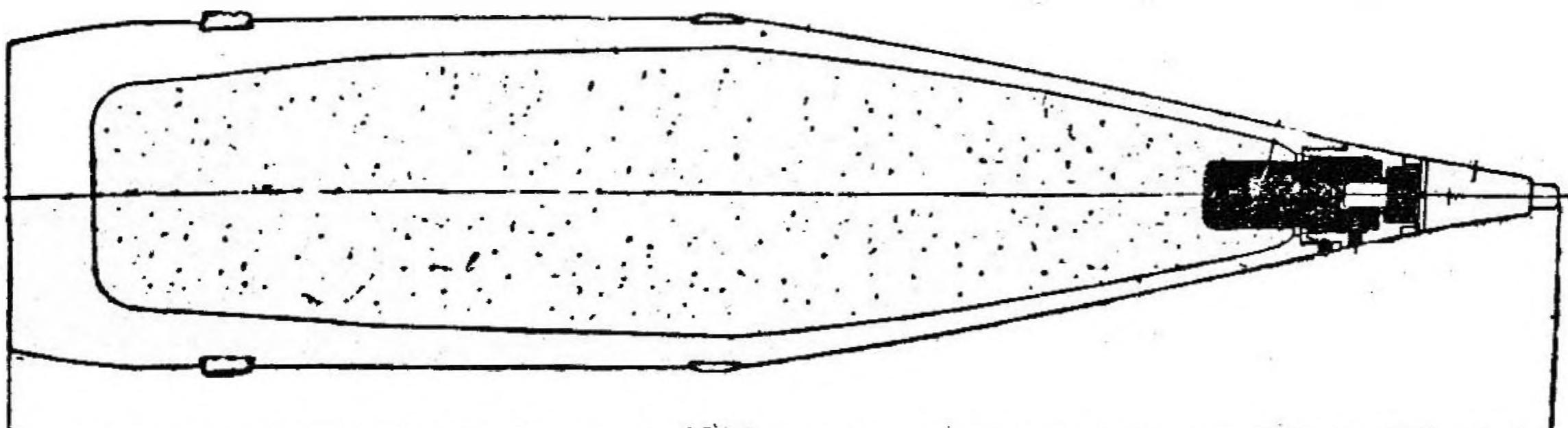
Projectile Weight: 31.100 kg

Weight and Type of Filling: TNT - 6.150 kg

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)  
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: 4th Year Type 15 cm Howitzer  
Type 96 15 cm Howitzer

Remarks: Effective Radius - 30 meters  
Class A 40 gm booster tube  
Equipment Class - 1 for 4th Year Type  
Equipment Class - 4 for Type 96



Diameter: 150 mm

Designation: Type 93 Long-pointed Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 685.0 mm

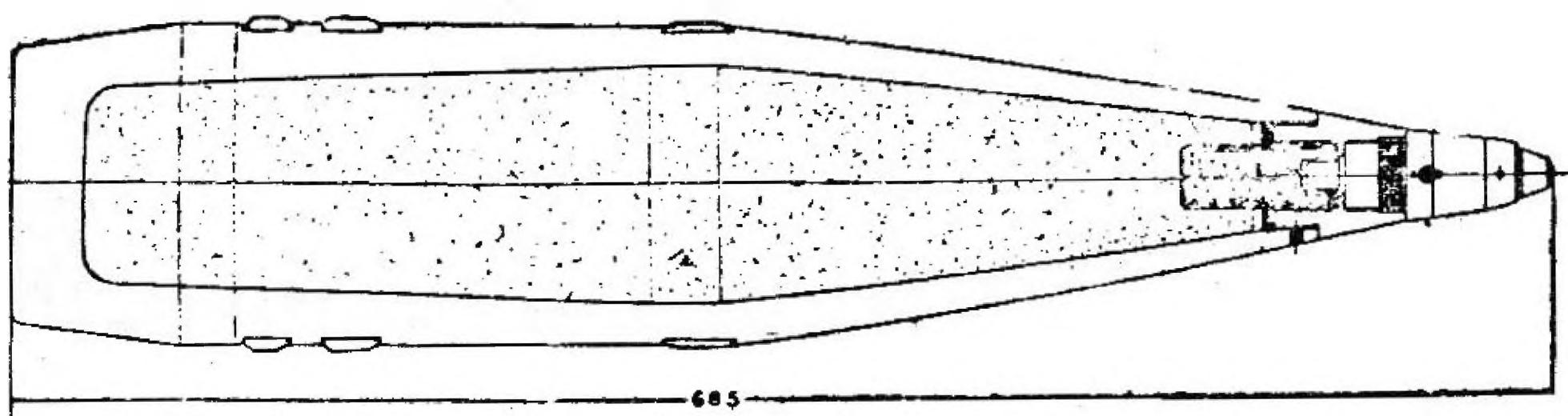
Projectile Weight: 40.200 kg

Weight and Type of Filling: TNT - 5.470 kg

Fuzing: Type 90 Instantaneous-Short Delay (Gun)

Guns Used In: Type 89 15 cm Gun      Type 90 15 cm Gun  
Type 45 15 cm Gun  
7th Year Type 15 cm Gun

Remarks: Equipment Class - 1  
Class A 40 gm booster tube  
Effective Radius - 40 meters



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Diameter: 150 mm

Designation: Type 96 Long-pointed Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 50.470 kg

Weight and Type of Filling: TNT, HEINEIYAKU

Fuzing: Type 98 Instantaneous-Short Delay (Gun)

Guns Used In: Type 96 15 cm Gun

Remarks: Equipment Class - 1

Diameter: 200 mm

Designation: Experimental 20 cm Rocket

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 1085 mm

Projectile Weight: 90 kg

Weight and Type of Filling: Type 91 Explosive

Fuzing: 20 cm Rocket (Percussion)

Guns Used In: Experimental 20 cm Rocket Gun

Remarks: Sources in conflict as to whether filler weight  
is 16.700 kg or 15.700 kg  
Motor body contains 8.4 kg of propellant  
Combustion time - 1.6 sec.

Diameter: 240 mm

Designation: Type 88 Substitute AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 199.90 kg

Weight and Type of Filling:

Fuzing: Type 88 Large Short Delay Base Fuze for Black Powder (Large Howitzer-Mortar)

Guns Used In: Type 45 24 cm Howitzer

Remarks: Equipment Class - 4

Diameter: 240 mm

Designation: AP-HE Projectile

Color and Markings: Red nose, yellow central band, white band above rotating band

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 200.0 kg

Weight and Type of Filling: TNT - 12.930 kg

Fuzing: Type 88 Large Short Delay Base (Large Howitzer-Mortar)

Guns Used In: Type 45 24 cm Howitzer

Remarks: Equipment Class - 1  
Picric acid also given for the filler

Diameter: 240 mm

Designation: Type 95 AP-HE Projectile A, B

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 198.00 kg

Weight and Type of Filling: TNT - 11.620 kg

Fuzing: Type 93 Mk. 3 Large AP Base (Howitzer)

Guns Used In: Type 45 24 cm Howitzer

Remarks: Equipment Class - 1

Diameter: 280 mm

Designation: Chilled Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 217.000 kg

Weight and Type of Filling: Fine grain powder - 9.500 kg

Fuzing: Type 88 Seacoast Gun Base (Short Delay)

Guns Used In: Krupp Type 28 cm Howitzer  
28 cm Howitzer

Remarks:

Diameter: 280 mm

Designation: Chilled AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 224.000 kg

Weight and Type of Filling: CHAOYAKU - 14.50 kg

Fuzing: Type 88 Large Short Delay Base (28 cm Howitzer)

Guns Used In: 28 cm Howitzer

Remarks:

Diameter: 280 mm

Designation: Type 98 AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling: TNT

Fuzing: Type 95 Mk. 3 Large AP Base (Mortar)

Guns Used In: 28 cm Howitzer

Remarks:

*Diameter:* Possibly 300 mm

*Designation:* Experimental AP-HE Projectile

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* 5th Year Type Small Base (Howitzer)

*Guns Used In:* 14th Year Type Heavy Inf Mortar

*Remarks:* Type 40 Cartridge Case Primer

*Diameter:* Possibly 300 mm

*Designation:* Type 95 AP-HE Projectile

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* Type 95 Lk. 2 Large AP Base (Mortar)

*Guns Used In:* Type 96 Heavy Mortar

*Remarks:*

Diameter: Possibly 300 mm

Designation: 14th Year Type Projectile, Modif. 1

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: 5th Year Type Delay Base (Modified)

Guns Used In: 14th Year Type Heavy Inf Mortar

Remarks: Type 40 Cartridge Case Primer

Diameter: Possibly 300 mm

Designation: 14th Year Type HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: 5th Year Type Delay Base (Modified)

Guns Used In: 14th Year Type Heavy Inf Mortar

Remarks: Type 40 Cartridge Case Primer

*Diameter:* 300 mm

*Designation:* Type 88 Substitute AP-HE Projectile

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* Type 88 Large Short Delay Base Fuze for Black Powder (Large Howitzer-Mortar)

*Guns Used In:* 7th Year Type 30 cm Short Howitzer

*Remarks:* Equipment Class - 4

*Diameter:* 300 mm

*Designation:* AP-HE Projectile

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:* 400.000 kg

*Weight and Type of Filling:* CHAGYAKU 40.000 kg

*Fuzing:* Type 88 Large Short Delay Base (Large Howitzer-Mortar)

*Guns Used In:* 7th Year Type 30 cm Short Howitzer

*Remarks:* Equipment Class - 1

Diameter: 300 mm

Designation: Type 90 AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 400.000 kg

Weight and Type of Filling: TNT - 22.500 kg

Fuzing: Type 95 Mk. 2 AP Base (Howitzer)

Guns Used In: 7th Year Type 30 cm Short Howitzer

Remarks: Equipment Class - 1

Diameter: 300 mm

Designation: Type 95 AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 296.000 kg

Weight and Type of Filling: TNT - 20.560 kg

Fuzing: Type 95 Mk. 2 AP Base (Howitzer)

Guns Used In: 7th Year Type 30 cm Short Howitzer

Remarks: Equipment Class - 1

Diameter: 300 mm

Designation: Type 95 AP-HE Projectile A, B, C

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 298.440 kg

Weight and Type of Filling: TNT - 22.400 kg

Fuzing: Type 95 Mk. 2 Large AP Base (Howitzer)

Guns Used In: 7th Year Type 30 cm Long Howitzer  
7th Year Type 30 cm Short Howitzer

Remarks:

Diameter: 400 mm

Designation: Capped AP Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling: Picric Acid

Fuzing: Type 13 Mk. 3

Guns Used In: 40 cm 45 Cal Gun

Remarks:

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THE PROJECTILES IN THE FOLLOWING SECTION  
HAVE BEEN DESIGNATED IN DOCUMENTS AS NAVAL  
PROJECTILES. THIS, HOWEVER, DOES NOT PRECLUDE  
CERTAIN OF THE FOREGOING PROJECTILES ALSO FROM  
BEING NAVAL.

JAPANESE PROJECTILES.  
CINCPAC-CINCPOA BULLETIN 85-45.

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Diameter: 50 mm

Designation: Practice Projectile

Color and Markings: Yellow nose, black body

Projectile Length:

Projectile Length With Fuze:

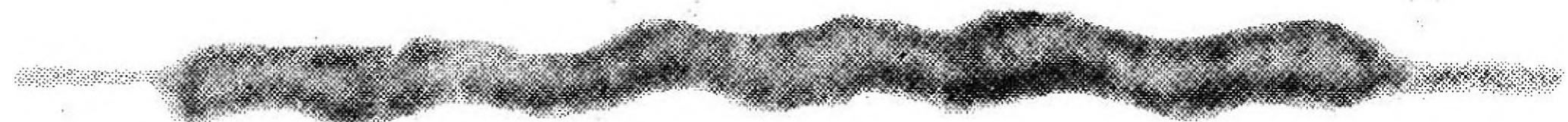
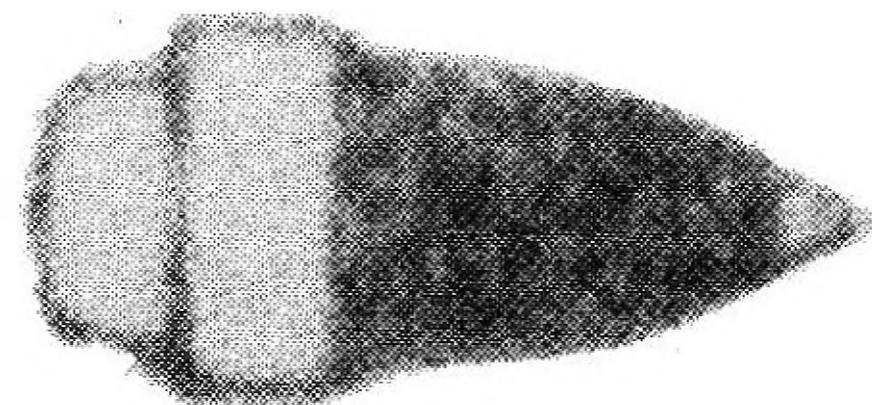
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 5 cm Short Gun  
5 cm Short DP Gun

Remarks:



*Diameter:* 50 mm

*Designation:* Practice Projectile

*Color and Markings:* Yellow nose, black body

*Projectile Length:*

*Projectile Length With Fuze:*

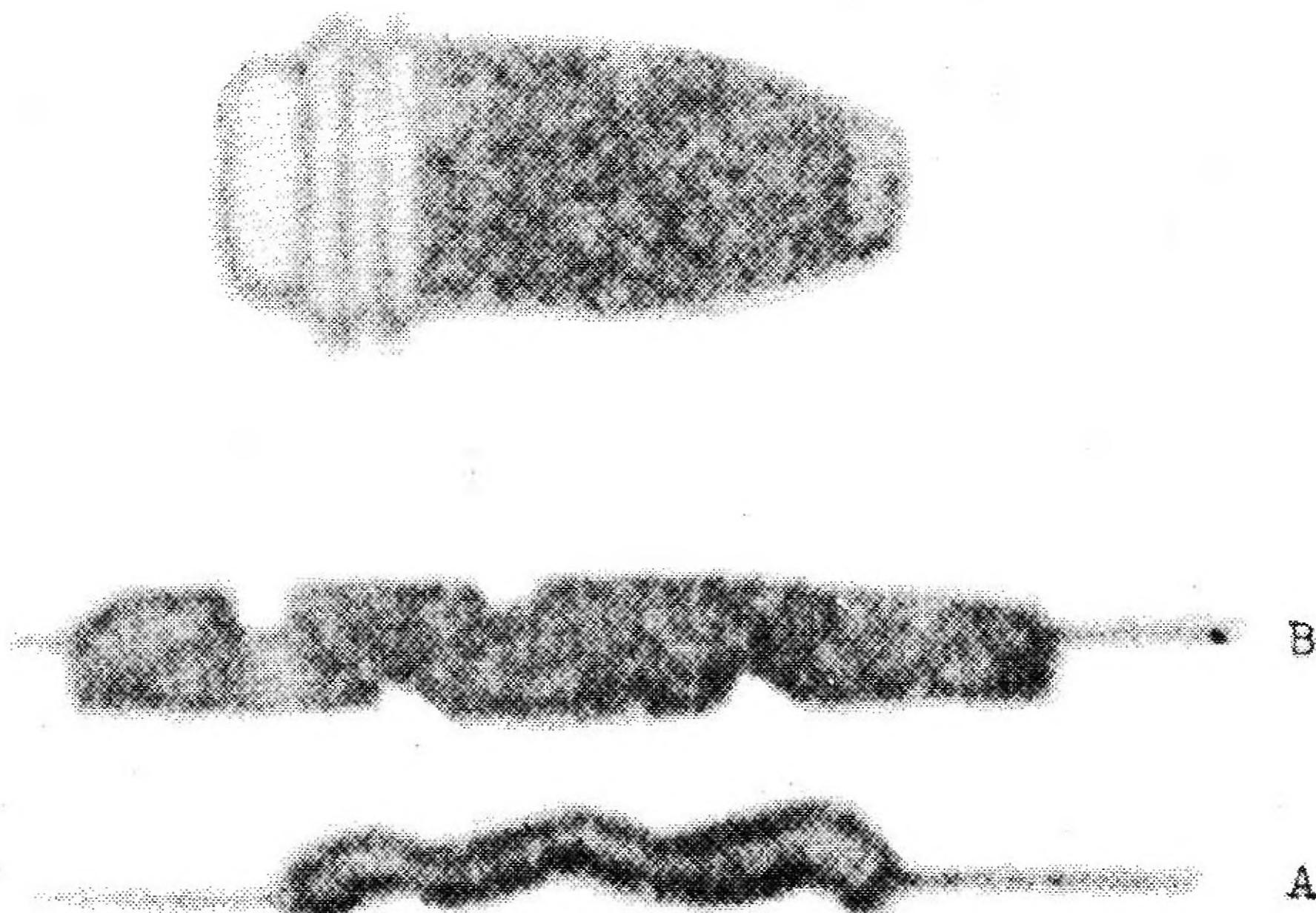
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 5 cm Gun  
5 cm DP Gun

*Remarks:* Those with rotating band A will no longer  
be manufactured



*Diameter:* 50 mm

*Designation:* Common Projectile

*Color and Markings:* Rust color

*Projectile Length:*

*Projectile Length With Fuze:*

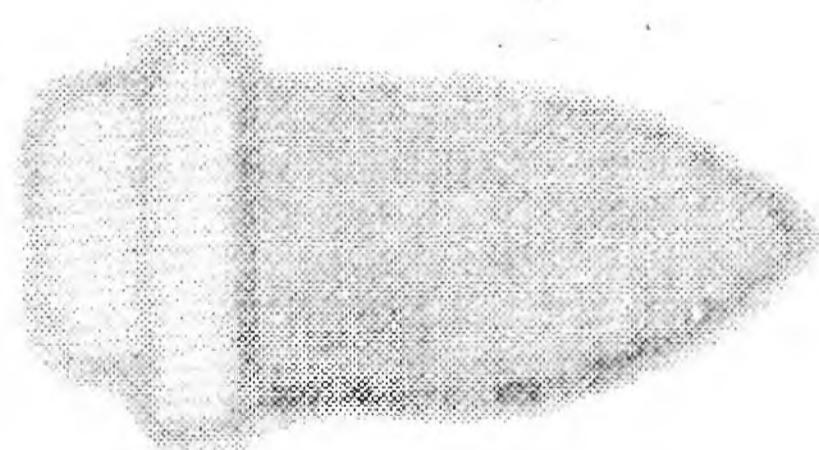
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 5 cm Short Gun  
5 cm Short DP Gun

*Remarks:* Rotating band same as shown for Practice  
projectile for these guns



*Diameter:* 50 mm

*Designation:* Common projectile

*Color and Markings:* Rust color

*Projectile Length:*

*Projectile Length With Fuze:*

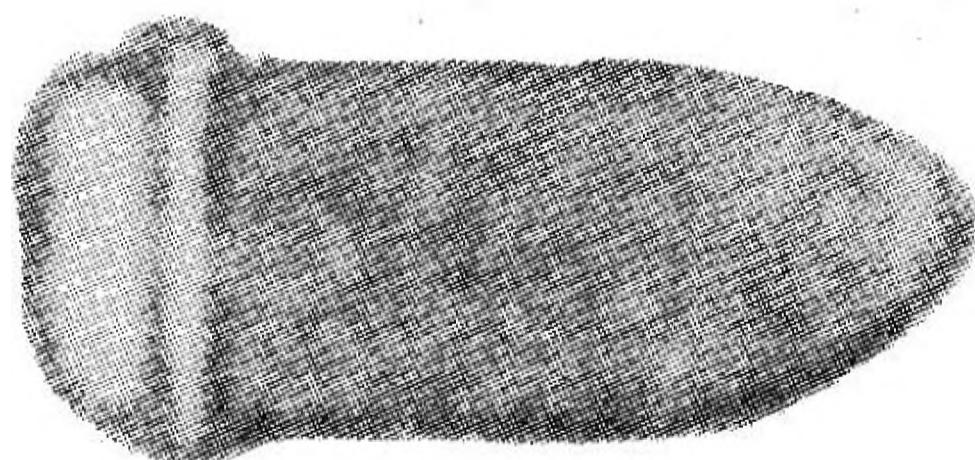
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 5 cm Gun  
5 cm DP Gun

*Remarks:* Those with rotating band A will no longer be manufactured. Rotating bands same as shown for Practice projectile for these guns.



*Diameter:* 60 mm

*Designation:* Practice Projectile

*Color and Markings:* Yellow nose, black body

*Projectile Length:*

*Projectile Length With Fuze:*

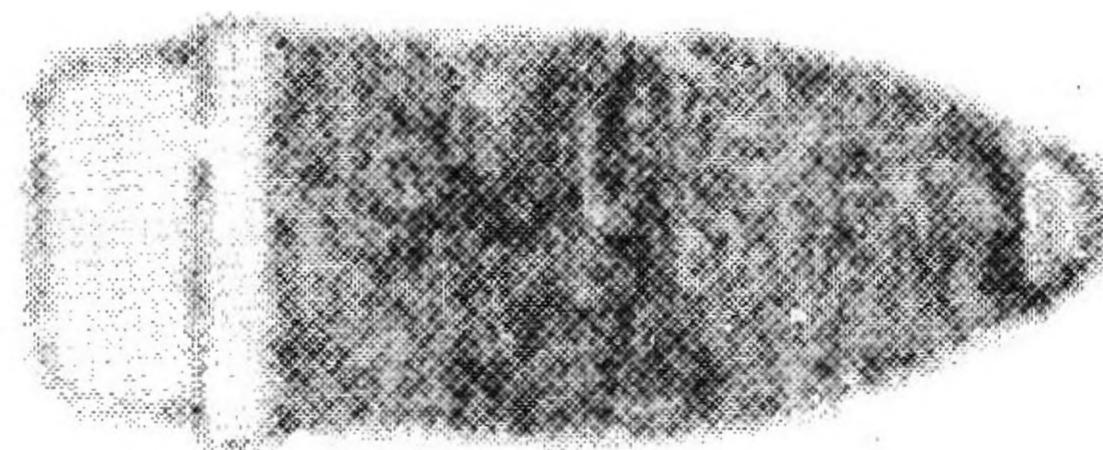
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 6 cm Gun

*Remarks:*



*Diameter:* 60 mm

*Designation:* Common Projectile

*Color and Markings:* Rust color

*Projectile Length:*

*Projectile Length With Fuze:*

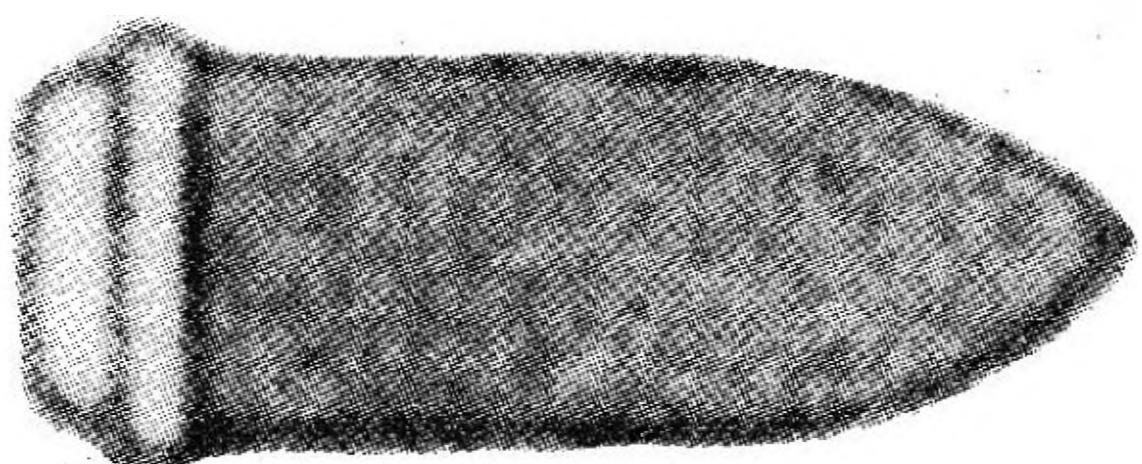
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 6 cm Gun

*Remarks:* Rotating band same as shown for Practice projectile for this gun.



*Diameter:* 80 mm

*Designation:* Mk. 1 Practice Projectile

*Color and Markings:* Yellow nose, black body

*Projectile Length:*

*Projectile Length With Fuze:*

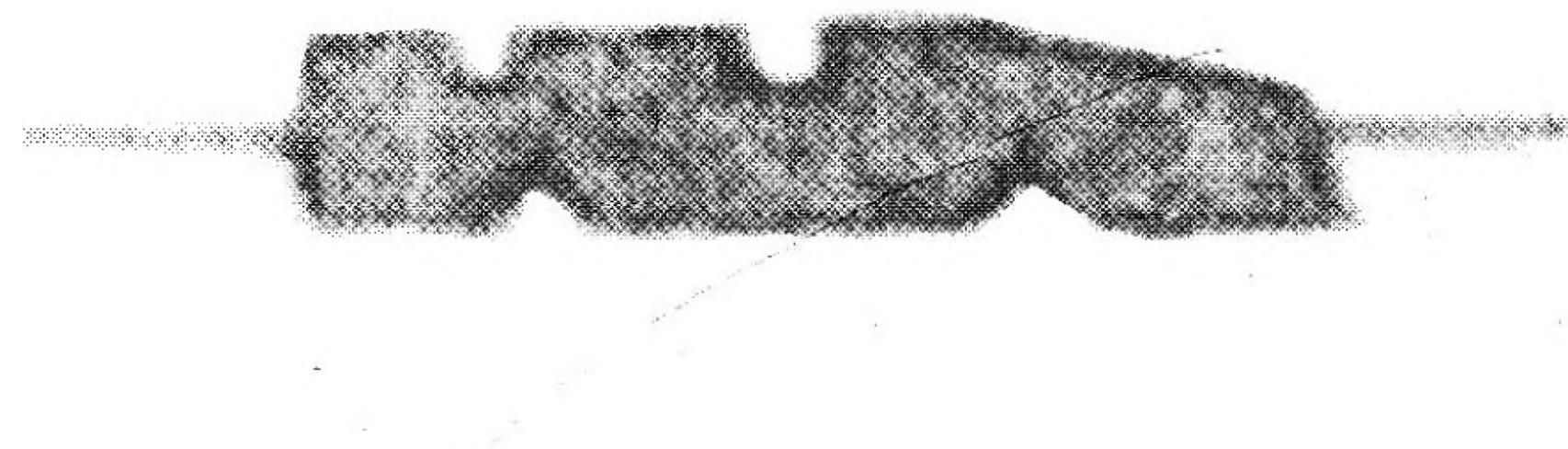
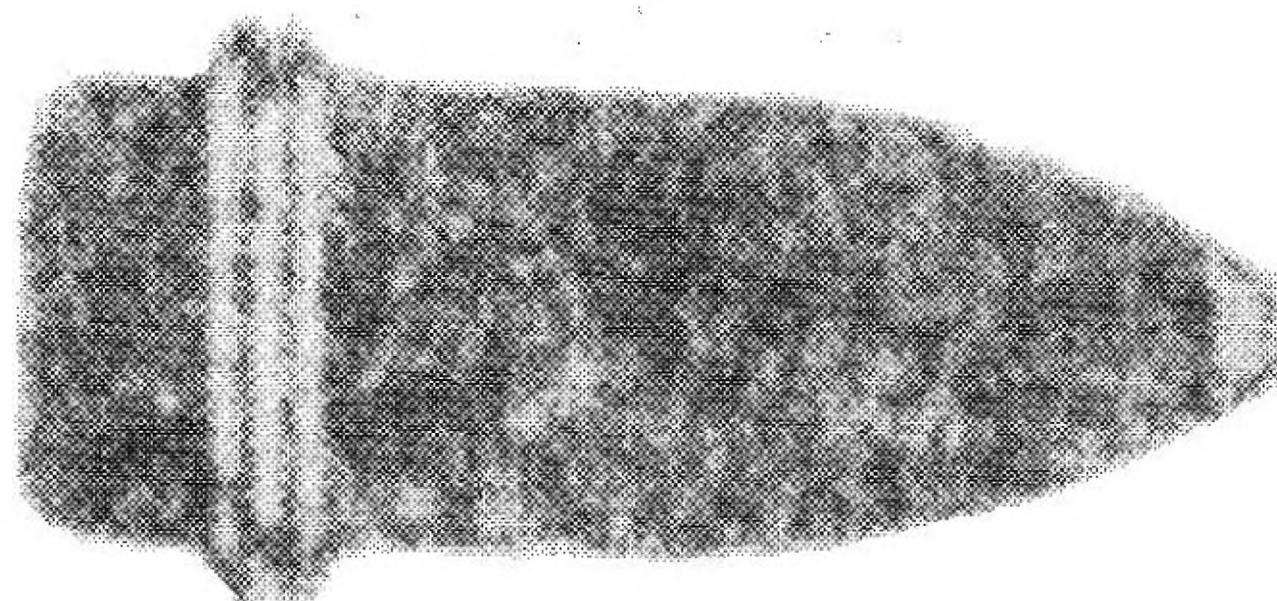
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 8 cm Gun  
8 cm Short Gun

*Remarks:* Ogive radius of 2 caliber



*Diameter:* 80 mm

*Designation:* Mk. 1 Practice Projectile

*Color and Markings:* Yellow nose, rust color body

*Projectile Length:*

*Projectile Length With Fuze:*

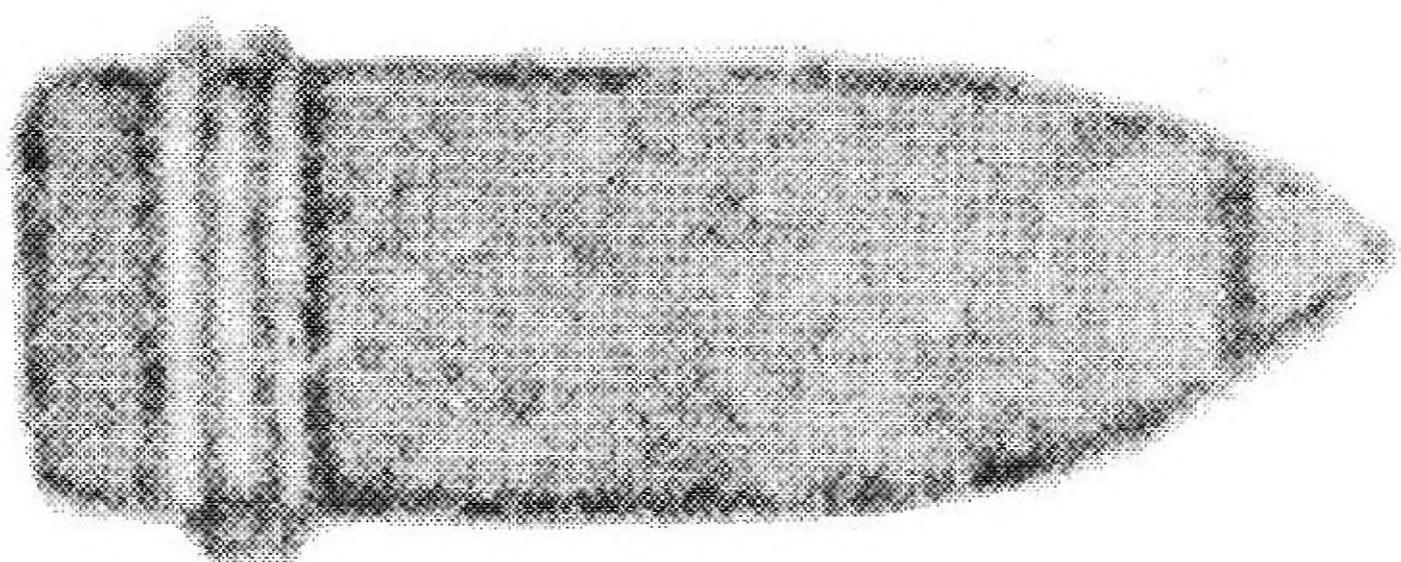
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 8 cm Gun

*Remarks:* Converted from Mk. 1 Common projectile for  
8 cm Short Gun.  
Ogive radius of 2 caliber  
Rotating band same as shown for Mk. 1 Practice  
Projectile for this gun.



*Diameter:* 80 mm

*Designation:* Mk. 1 Practice Projectile B

*Color and Markings:* Yellow nose, rust color body, (乙) on ogive.

*Projectile Length:*

*Projectile Length With Fuze:*

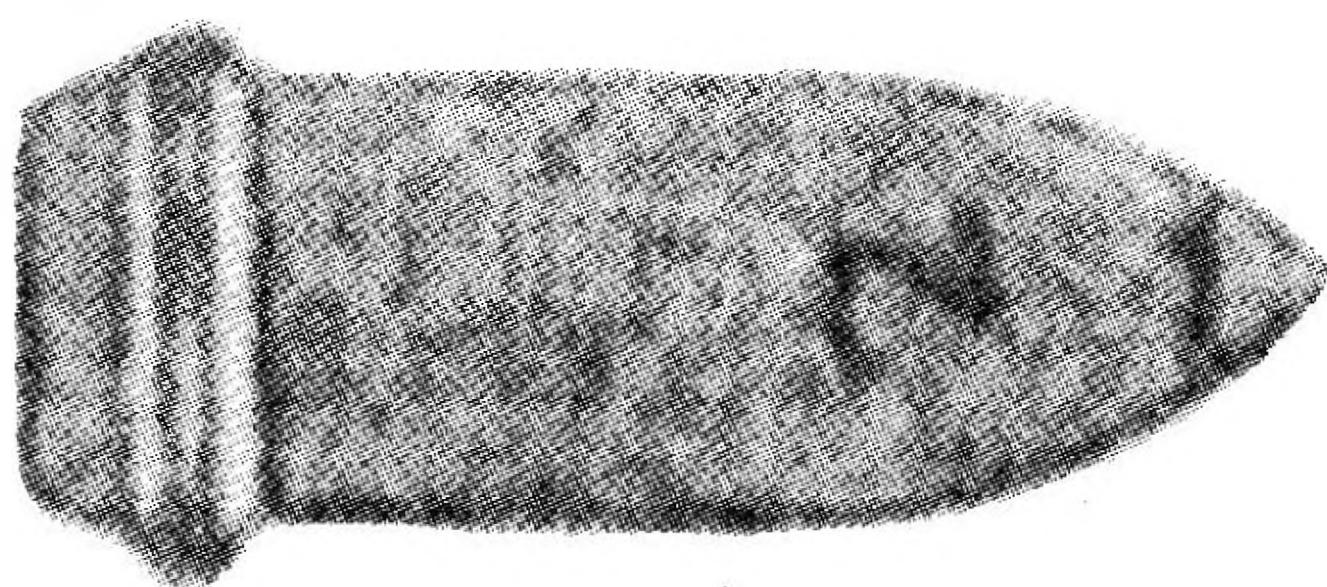
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 8 cm Gun

*Remarks:* Converted from Mk. 1 Common projectile B. Ogive radius of 2 caliber. Rotating band same as shown for Mk. 1 Practice projectile for this gun.



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30 APRIL 1945.

*Diameter:* 80 mm

*Designation:* Mk. 2 Practice Projectile

*Color and Markings:* Yellow nose, black body

*Projectile Length:*

*Projectile Length With Fuze:*

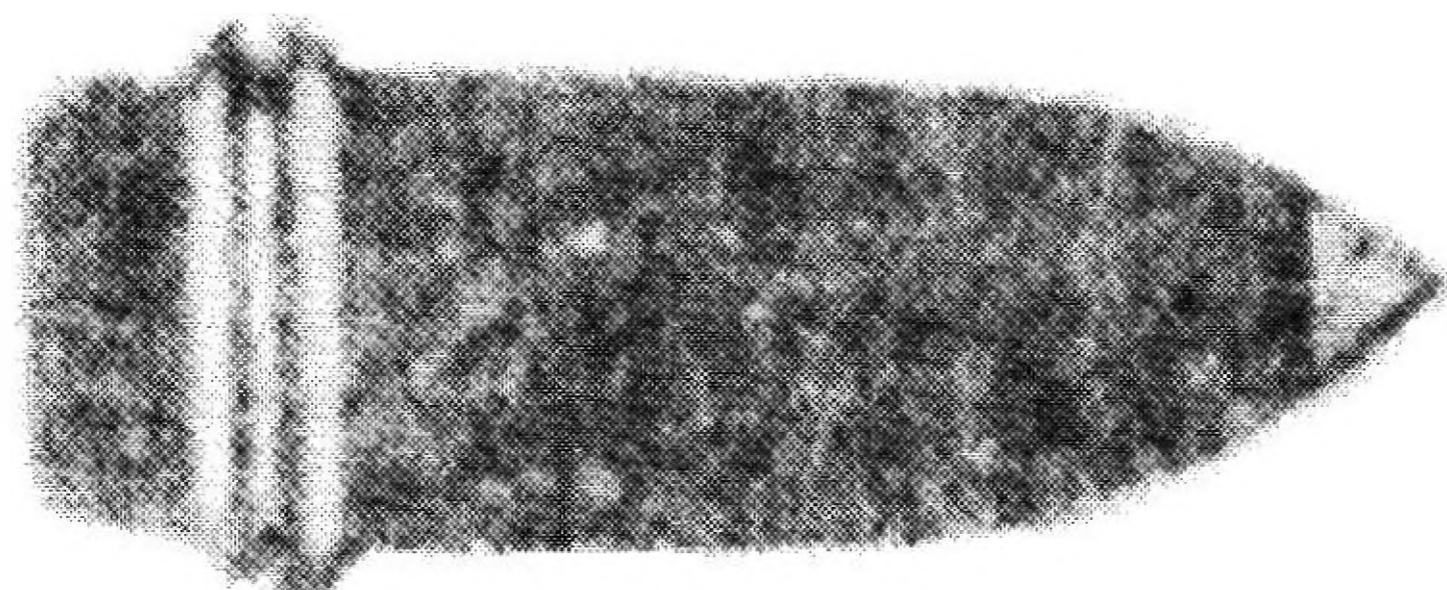
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 8 cm Gun

*Remarks:* Ogive radius of 6 caliber  
Rotating band same as shown for Mk. 1 Practice  
projectile for this gun.



*Diameter:* 80 mm

*Designation:* Mk. 3 Practice Projectile

*Color and Markings:* Yellow nose, black body

*Projectile Length:*

*Projectile Length With Fuze:*

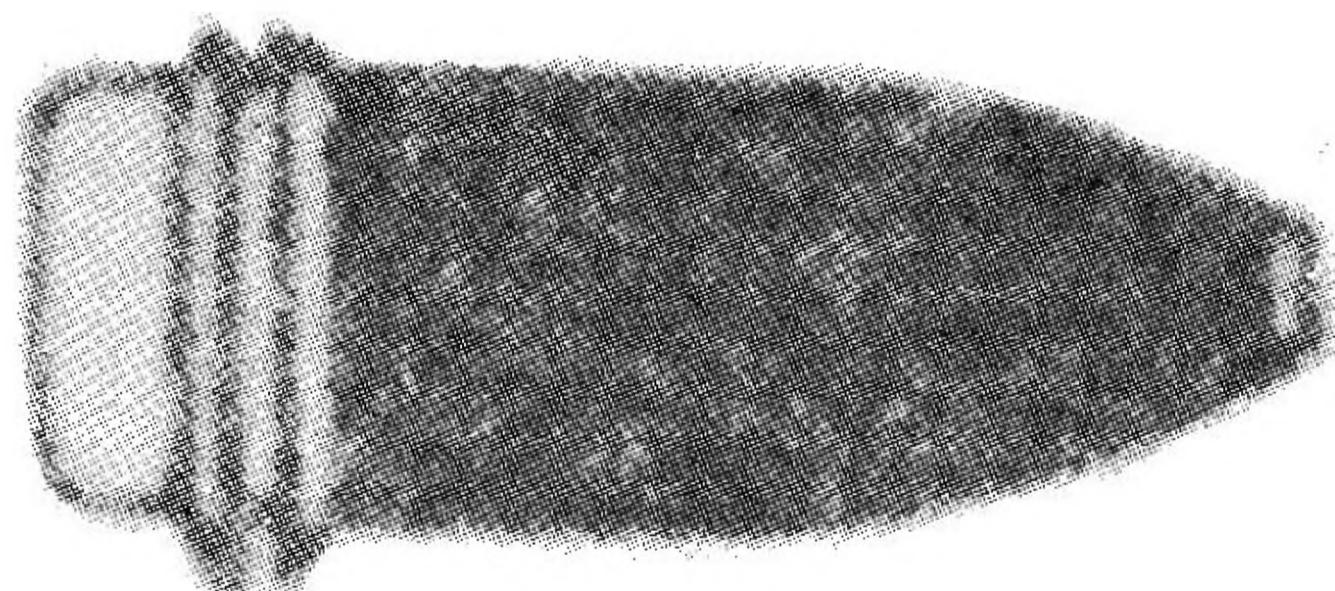
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* For the Type 98 60 cal 8 cm DP Gun: Type 98  
Time

*Guns Used In:* 8 cm Gun  
8 cm Short DP Gun  
Type 98 8 cm 60 cal DP Gun

*Remarks:* Fixed ammunition  
Rotating band same as shown for Mk. 1 Practice  
projectile for these guns.



*Diameter:* 80 mm

*Designation:* Time Practice Projectile

*Color and Markings:* Black body, two rows of white dots on ogive.

*Projectile Length:*

*Projectile Length With Fuze:*

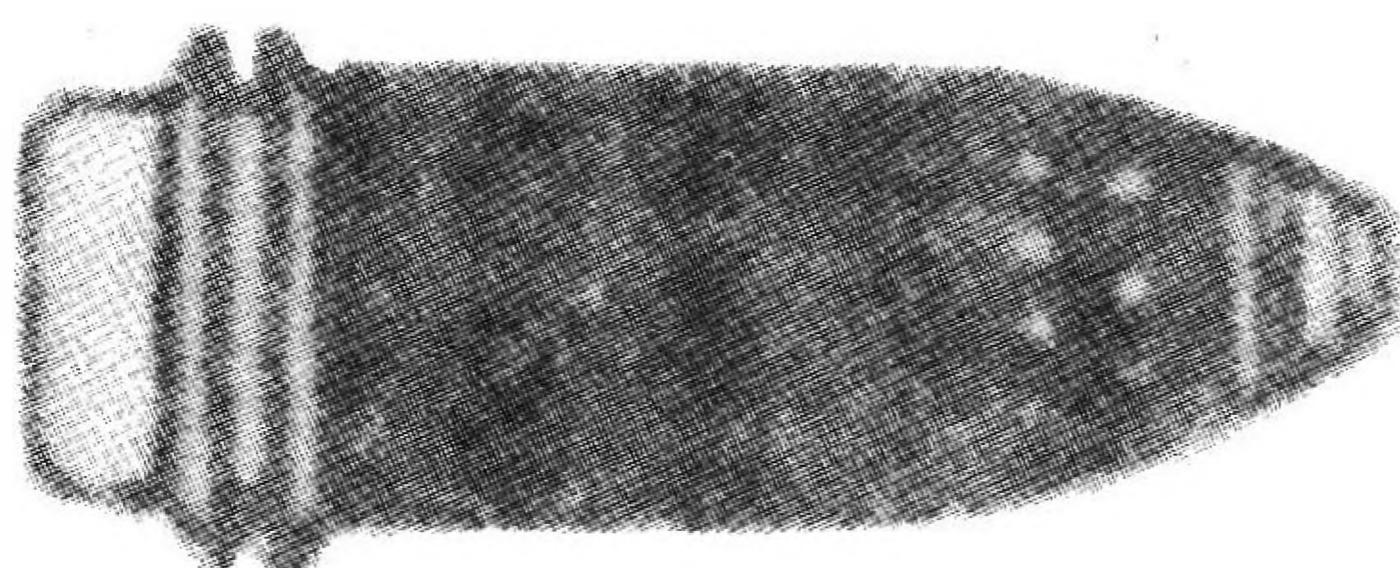
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* Type 98 Time

*Guns Used In:* 8 cm Short DP Gun  
Type 98 8 cm 60 cal DP Gun

*Remarks:* Fixed ammunition  
Rotating band same as shown for Mk. 1 Practice projectile for these guns.



*Diameter:* 80 mm

*Designation:* Target Projectile

*Color and Markings:* Green body

*Projectile Length:*

*Projectile Length With Fuze:*

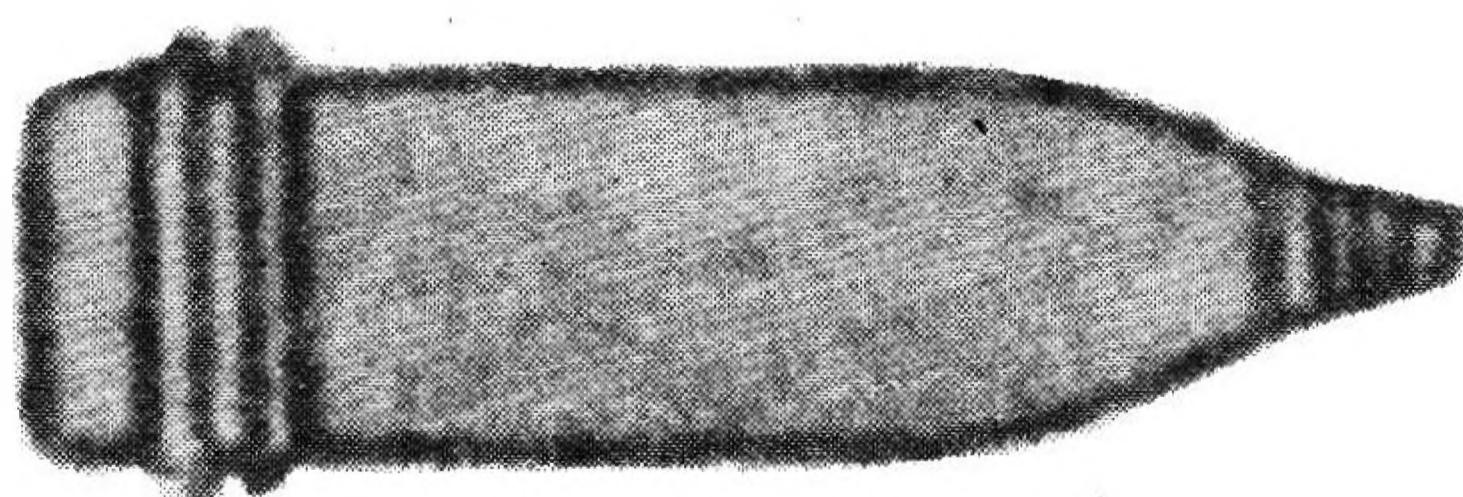
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* 30 Second Time

*Guns Used In:* Type 88 8 cm 40 cal DP Gun  
3rd Year Type 8 cm 40 cal DP Gun  
8 cm Short Gun

*Remarks:* Fixed ammunition  
Rotating band same as shown for Mk. 1 Practice  
projectile for this gun.



*Diameter:* 80 mm

*Designation:* Smoke Tracer Projectile

*Color and Markings:* Red body

*Projectile Length:*

*Projectile Length With Fuze:*

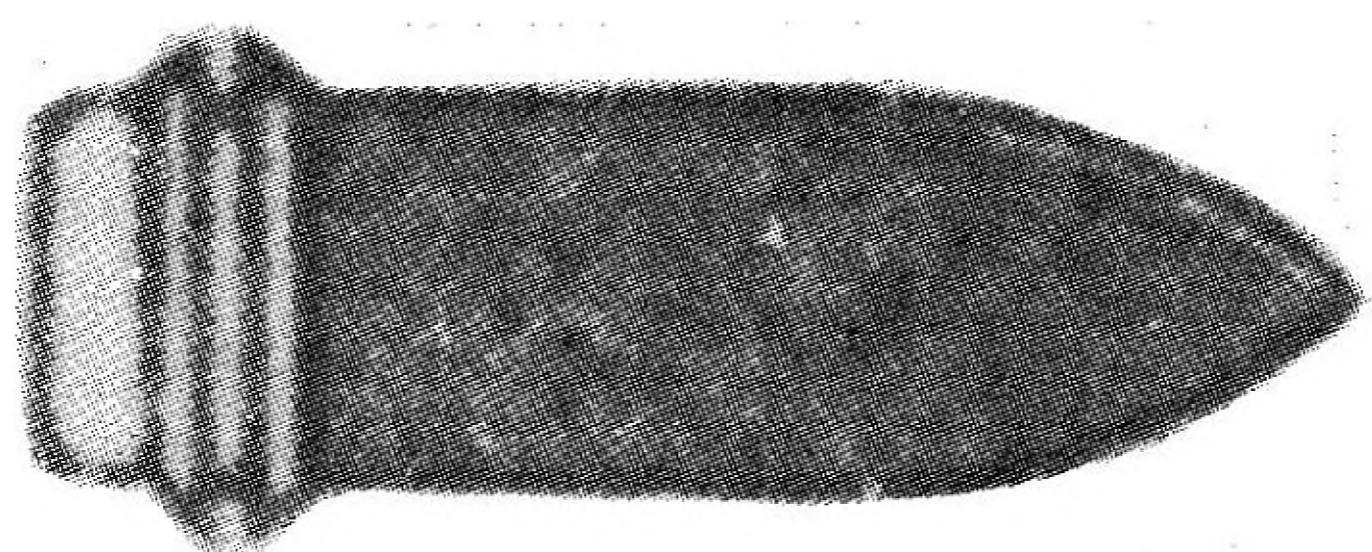
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* Type 3 Time, Model 1

*Guns Used In:* Type 88 8 cm 40 cal DP Gun  
3rd Year Type 8 cm 40 cal DP Gun  
8 cm Short Gun

*Remarks:* Fixed ammunition  
Rotating band same as shown for Mk. 1 Practice  
projectile for this gun.



*Diameter:* 80 mm

*Designation:* Type 1 AP Projectile

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* Type 1

*Guns Used In:* Type 88 8cm 40 cal DP Gun  
3rd Year Type 8 cm 40 cal DP Gun

*Remarks:*

*Diameter:* 80 mm

*Designation:* Shrapnel Projectile

*Color and Markings:* Gray body

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

*Weight and Type of Filling:*

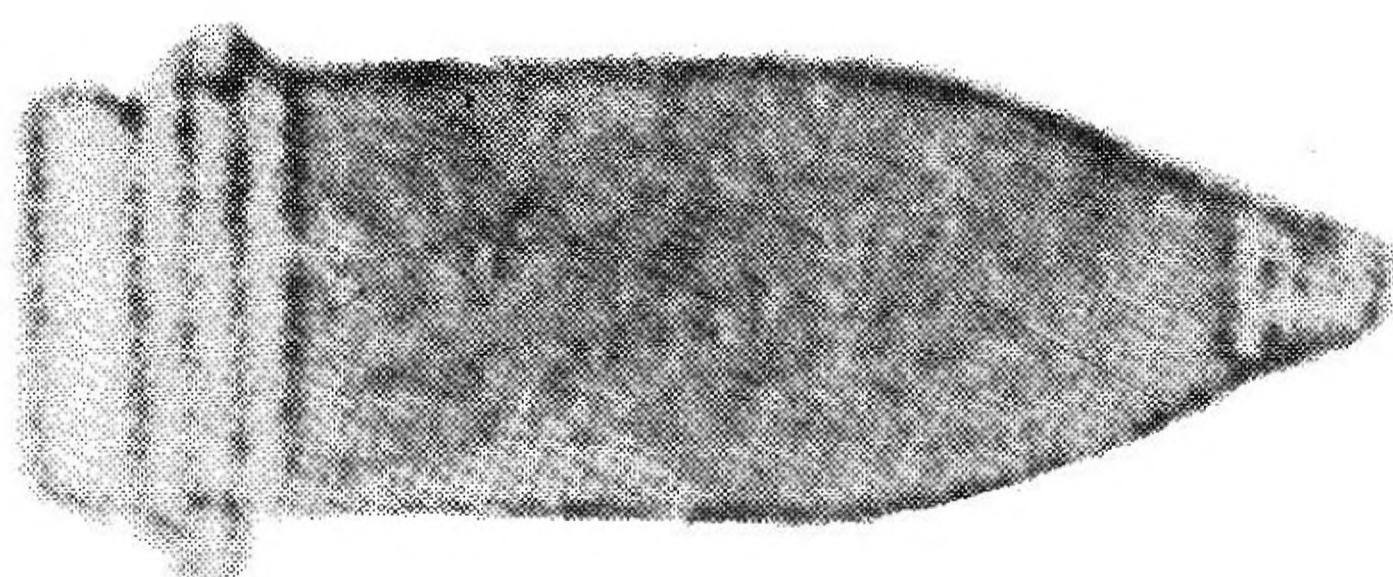
*Fuzing:* Type 98 Time  
30 Second Time

*Guns Used In:*

3rd Year Type 8 cm 40 cal DP Gun	8 cm Short DP Gun
Type 88 8 cm 40 cal DP Gun	Type 98 8 cm 60 cal DP Gun

*Remarks:*

Fixed ammunition  
Rotating band same as shown for Mk. 1  
Practice projectile for these guns.



*Diameter:* 80 mm

*Designation:* Mk. 1 Common Projectile

*Color and Markings:* Rust color

*Projectile Length:*

*Projectile Length With Fuze:*

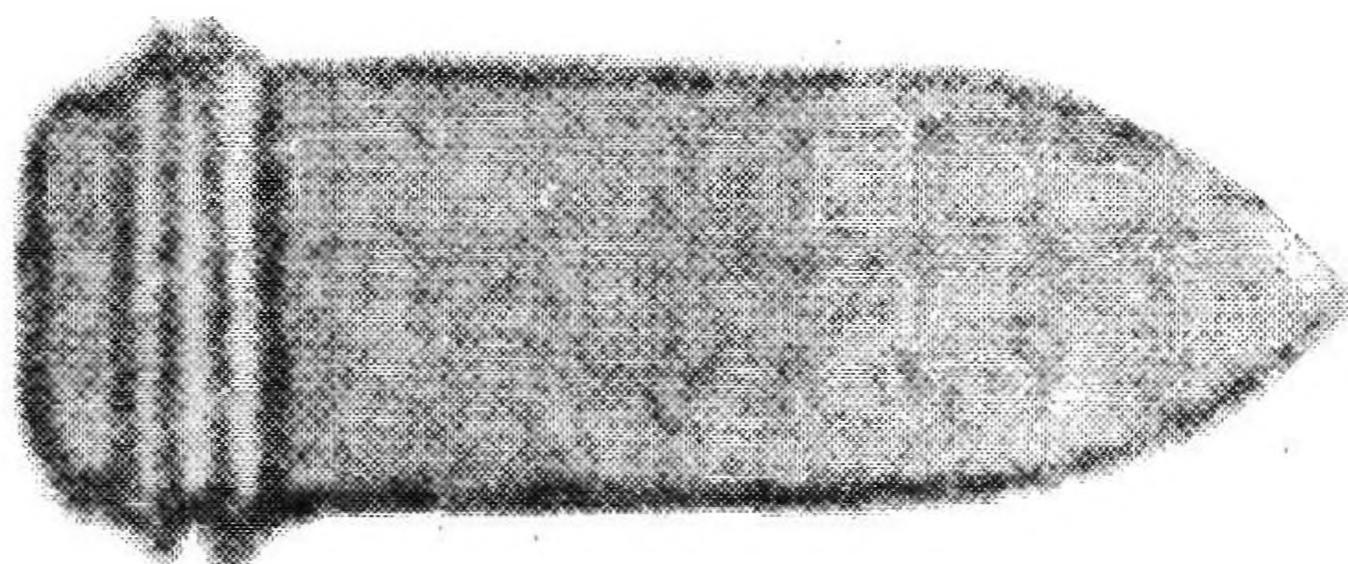
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* 5th Year Type Nose, Modif. 3

*Guns Used In:* 8 cm Gun  
8 cm Short Gun

*Remarks:* Ogive radius of 2 caliber  
Rotating band same as shown for Mk. 1  
Practice projectile for these guns.



*Diameter:* 80 mm

*Designation:* Mk. 1 Common projectile, Modif. 1, 2

*Color and Markings:* Rust color

*Projectile Length:*

*Projectile Length With Fuze:*

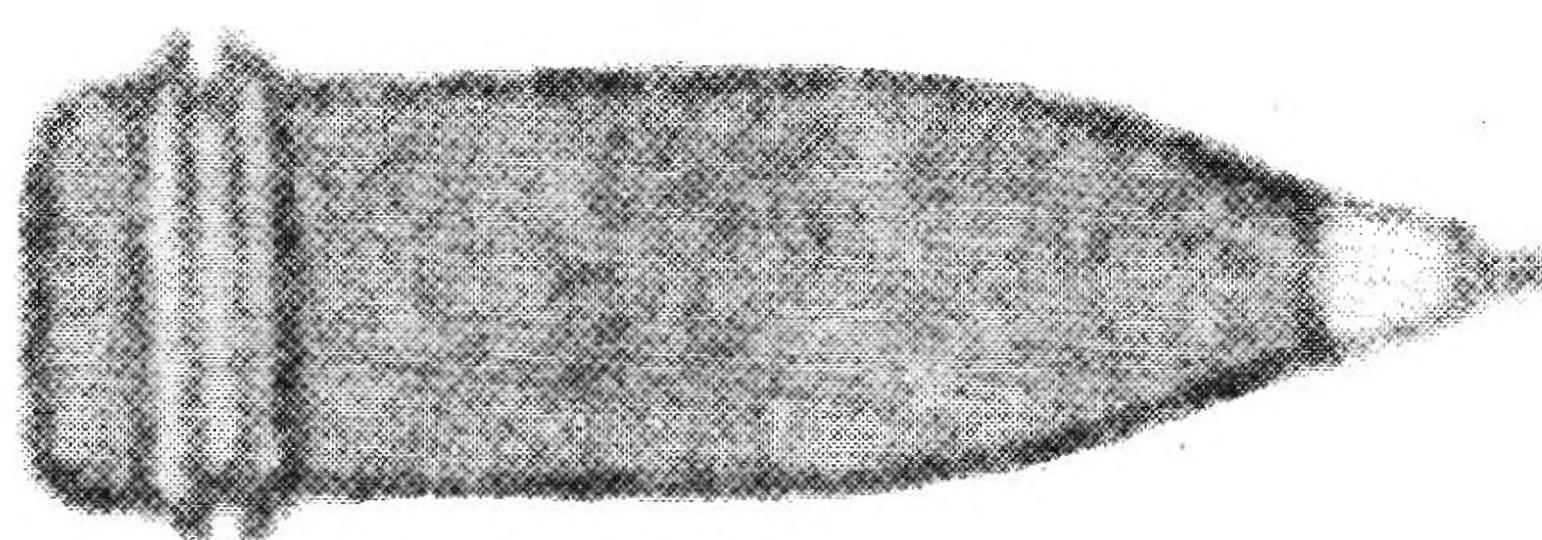
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* For Modif. 2: Type 2 (TN: Formerly called 5th  
Year Type Nose Fuze)

*Guns Used In:* 8 cm Gun

*Remarks:* Ogive radius of 2 caliber  
(改二) (vertically) is stamped into the ro-  
tating band of Modif. 2  
Rotating band same as shown for Mk. 1  
Practice projectile for this gun.



*Diameter:* 80 mm

*Designation:* Mk. 1 Common Projectile B

*Color and Markings:* Rust color body, (乙) on ogive in white.

*Projectile Length:*

*Projectile Length With Fuze:*

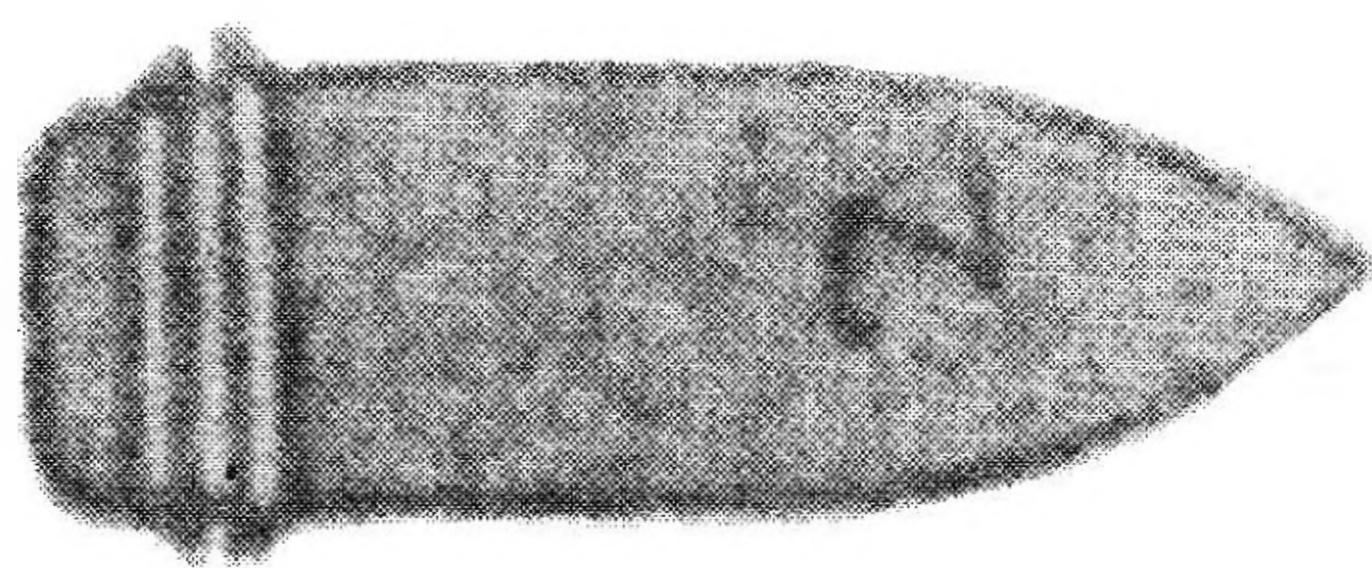
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 8 cm Gun

*Remarks:* Ogive radius of 2 caliber  
Rotating band same as shown for Mk. 1 Practice projectile for this gun.



*Diameter:* 80 mm

*Designation:* Mk. 2 Common Projectile

*Color and Markings:* Rust color

*Projectile Length:*

*Projectile Length With Fuze:*

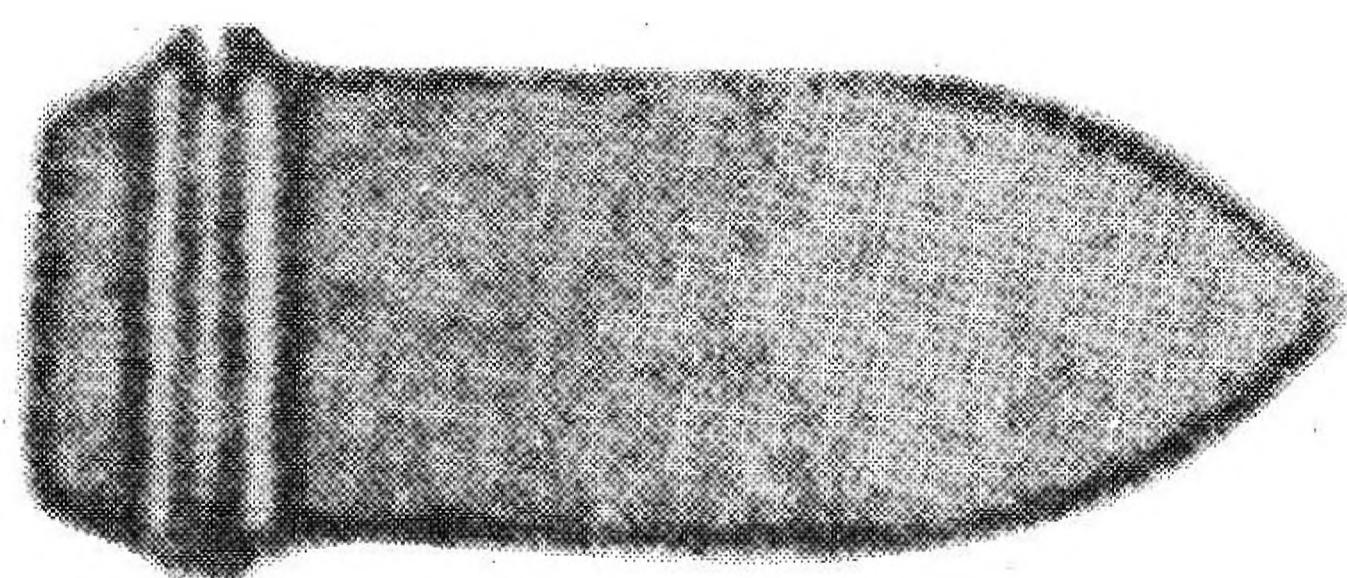
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* 5th Year Type Nose, Modif. 3

*Guns Used In:* 8 cm Gun

*Remarks:* Ogive radius of 6 caliber  
Rotating band same as shown for Mk. 1  
Practice projectile for this gun.



*Diameter:* 80 mm

*Designation:* Mk. 2 Common Projectile, Modif. 1 and 2

*Color and Markings:* Rust color

*Projectile Length:*

*Projectile Length With Fuze:*

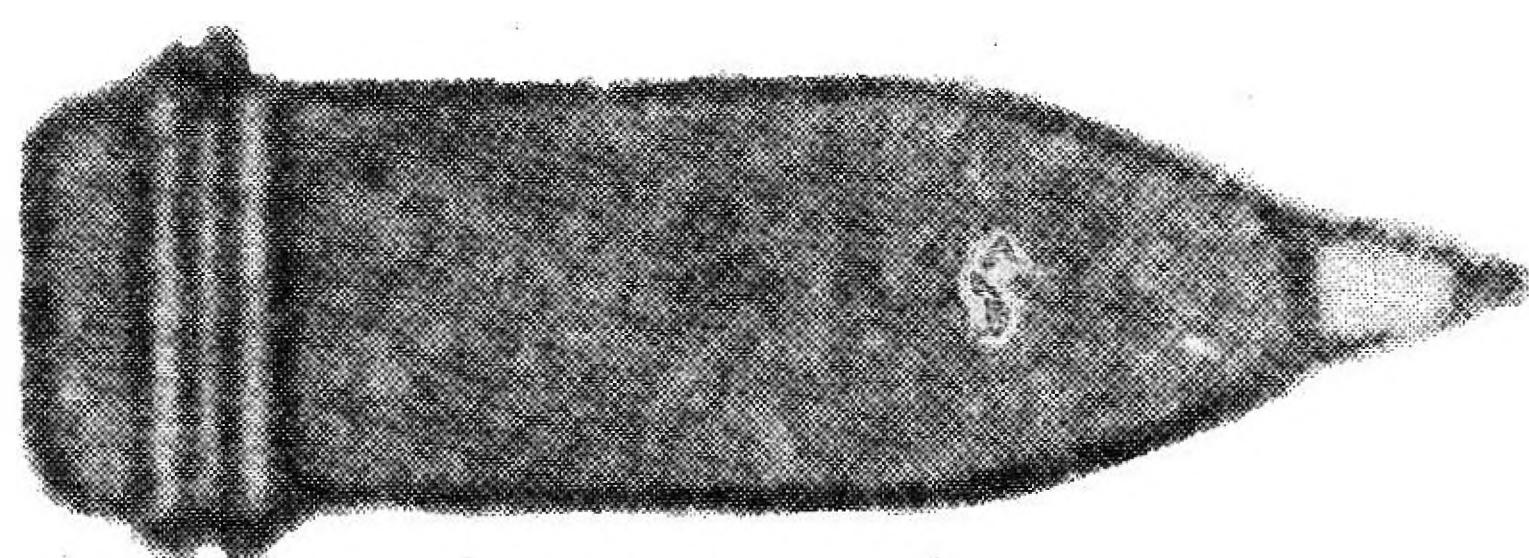
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* For Modif. 2: Type 2 (TN: Formerly called 5th  
Year Type Nose Fuze)

*Guns Used In:* 8 cm Gun

*Remarks:* Ogive radius of 6 caliber  
(~~改~~ 二) (vertically) is stamped into the  
rotating band of Modif. 2.  
Rotating band same as shown for Mk. 1  
Practice projectile for this gun.



*Diameter:* 80 mm

*Designation:* Mk. 3 Common Projectile

*Color and Markings:* Rust color

*Projectile Length:*

*Projectile Length With Fuze:*

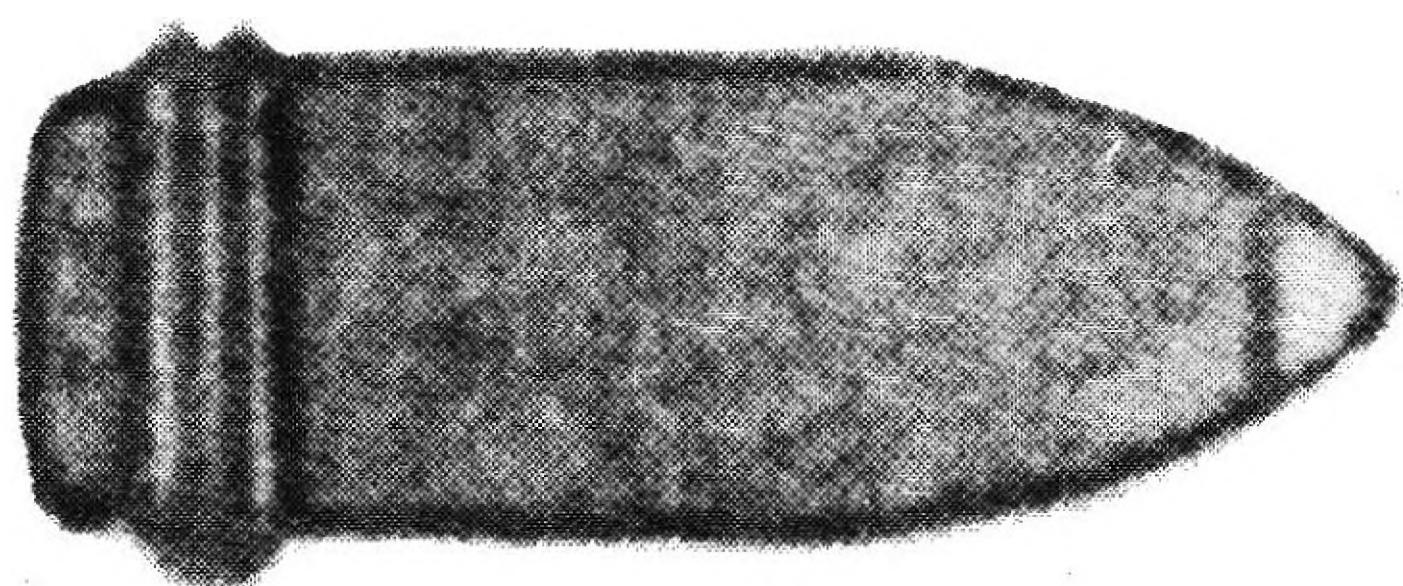
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* For Type 98 8 cm 60 cal DP Gun: Type 98 Time  
For 8 cm Gun: Type 2 (TN: Formerly called 5th Year  
Type Nose Fuze)

*Guns Used In:* 8 cm Gun  
8 cm Short DP Gun  
Type 98 8 cm 60 cal DP Gun

*Remarks:* Fixed ammunition  
Rotating band same as shown for Mk. 1  
Practice projectile for these guns.



*Diameter:* 80 mm

*Designation:* Mk. 3 Common Projectile Modif. 1

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* Type 2 (TN: Formerly called 5th Year Type  
Nose Fuze)  
Type 89 Long-pointed AA

*Guns Used In:* 8 cm Gun  
Type 88 40 cal 8 cm DP Gun  
3rd Year Type 40 cal 8 cm DP Gun

*Remarks:* Rotating band same as shown for Mk. 1  
Practice projectile for this gun.

JAPANESE PROJECTILES.  
CINCPAC-CINCPOA BULLETIN 85-45.

CONFIDENTIAL.  
30 APRIL 1945.

*Diameter:* 100 mm

*Designation:* Practice Projectile

*Color and Markings:* Yellow nose, black body

*Projectile Length:*

*Projectile Length With Fuze:*

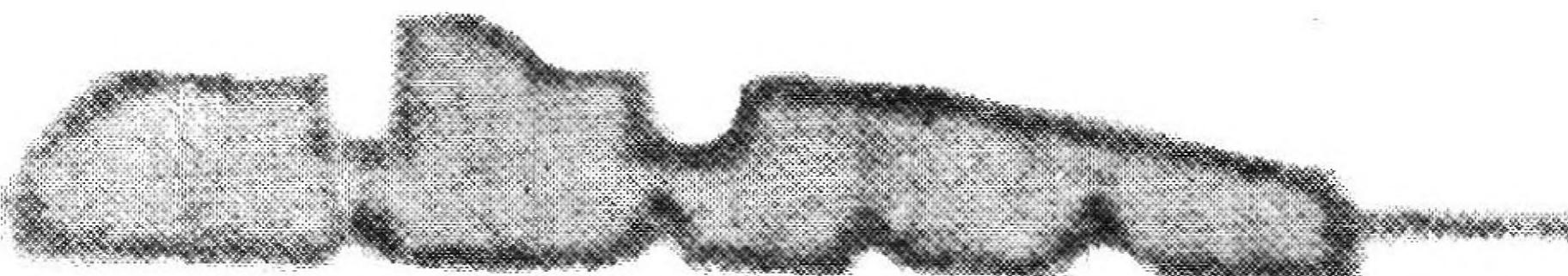
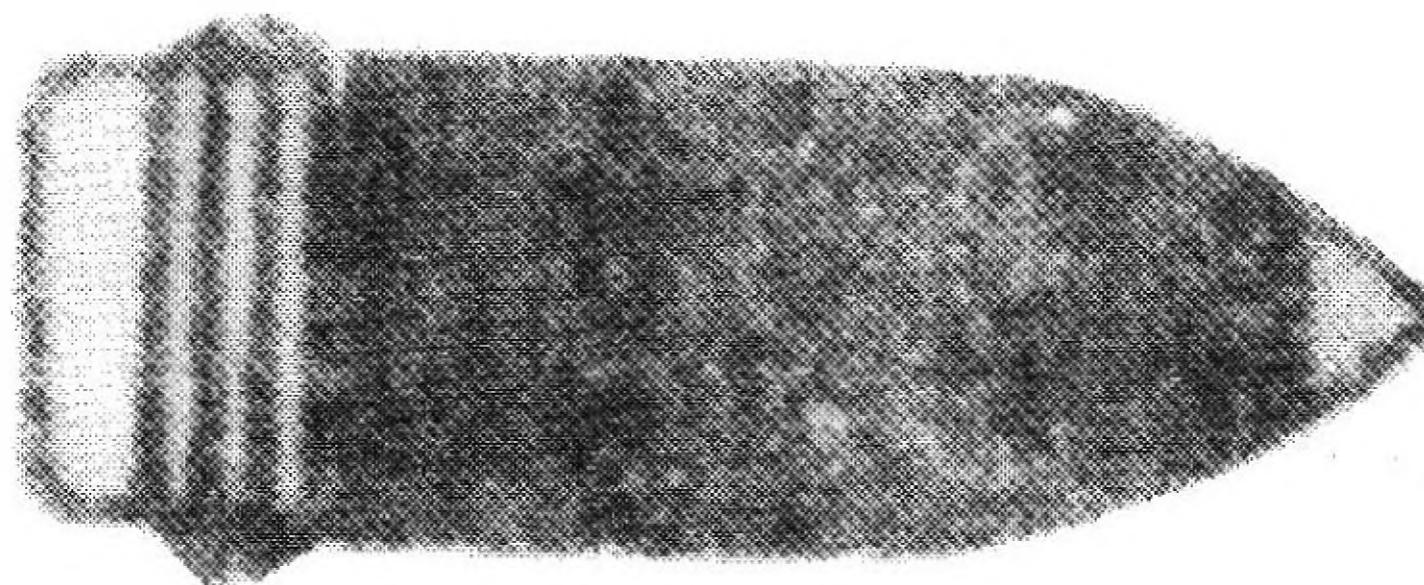
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* Type 88, Model 2

*Guns Used In:* Type 98 10 cm 50 cal DP Gun  
Type 98 10 cm 65 cal DP Gun

*Remarks:* Fixed ammunition  
Used for level firing



*Diameter:* 100 mm

*Designation:* Time Practice Projectile

*Color and Markings:* Black body, two rows of white dots on ogive.

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

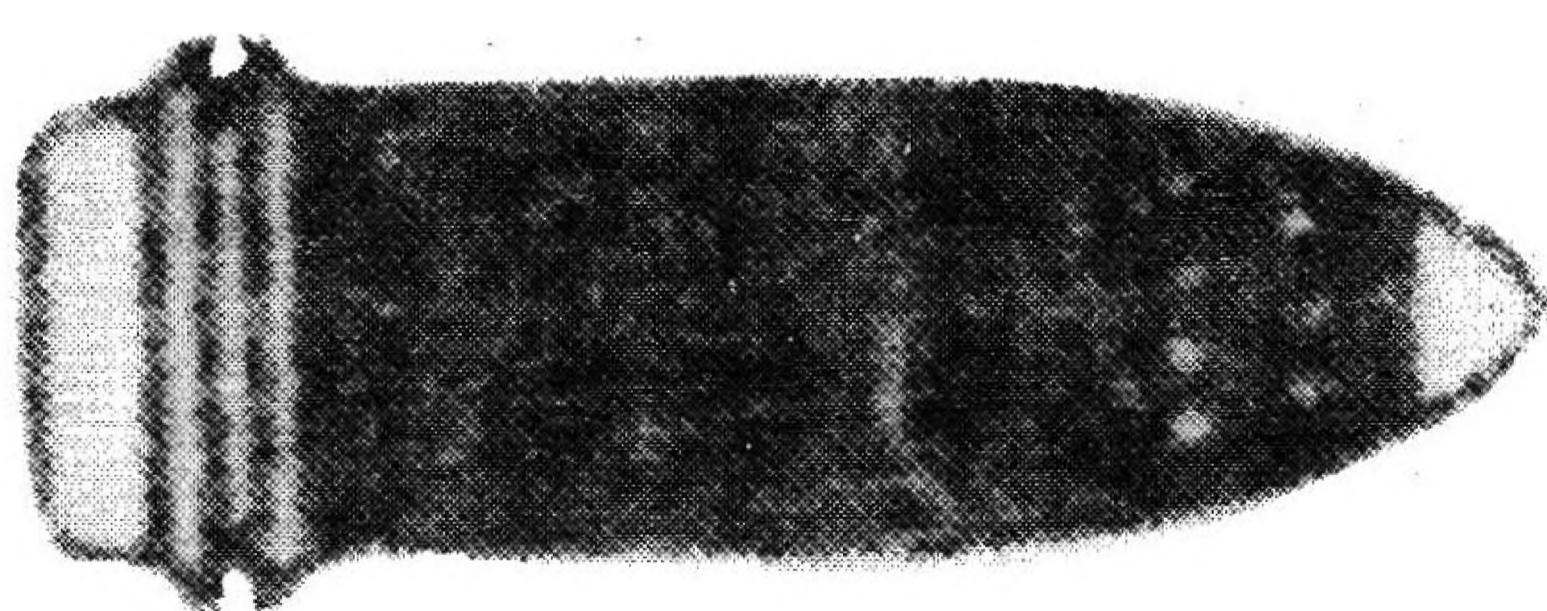
*Weight and Type of Filling:*

*Fuzing:* Type 98 Time

*Guns Used In:* Type 98 10 cm 50 cal DP Gun  
Type 98 10 cm 65 cal DP Gun

*Remarks:* Fixed ammunition

Rotating band same as shown for Practice projectile for this gun  
Used for AA firing



Diameter: 100 mm

Designation: Common Projectile

Color and Markings: Rust color

Projectile Length:

Projectile Length With Fuze:

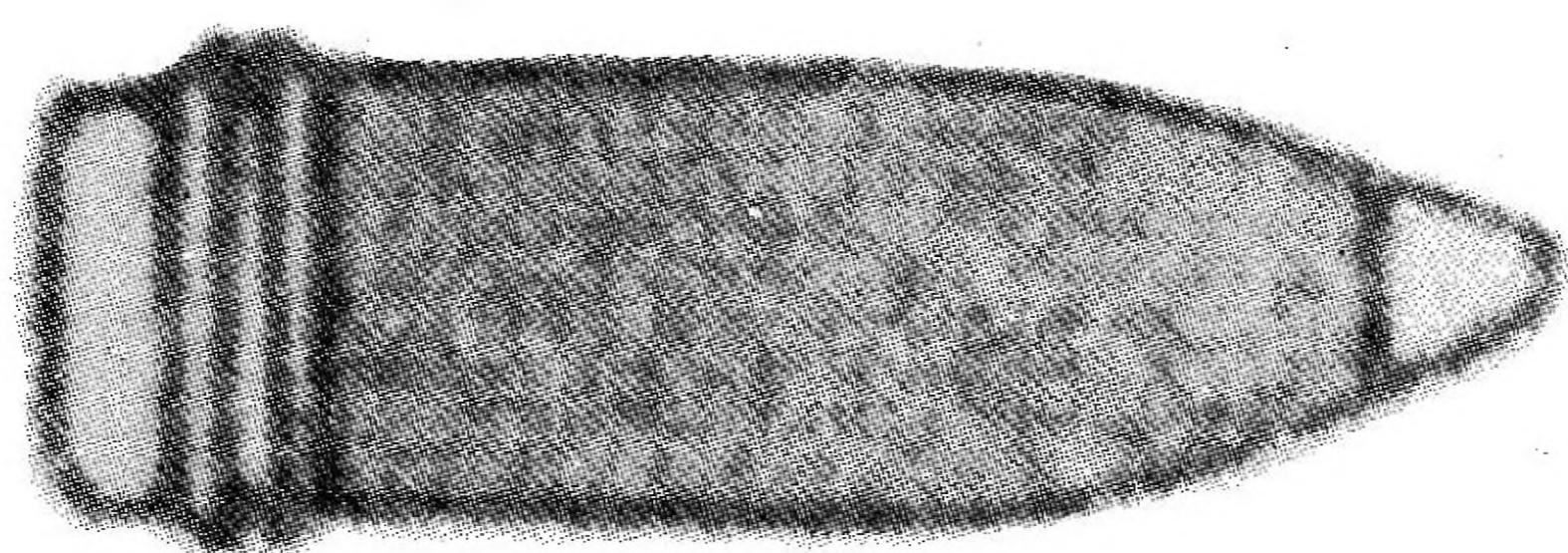
Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 98 Time	Type 88
Type 88, Model 2	Type 88, Modif. 1
Type 4	

Guns Used In: Type 98 10 cm 50 cal DP Gun  
Type 98 10 cm 65 cal DP Gun

Remarks: Fixed ammunition  
Rotating band same as shown for Practice  
projectile for this gun.  
Type 98 Fuze used for AA firing. Type 88 fuzes  
for level firing and Type 4 for both.



*Diameter:* 120 mm

*Designation:* Practice Projectile

*Color and Markings:* Yellow nose, black body

*Projectile Length:*

*Projectile Length With Fuze:*

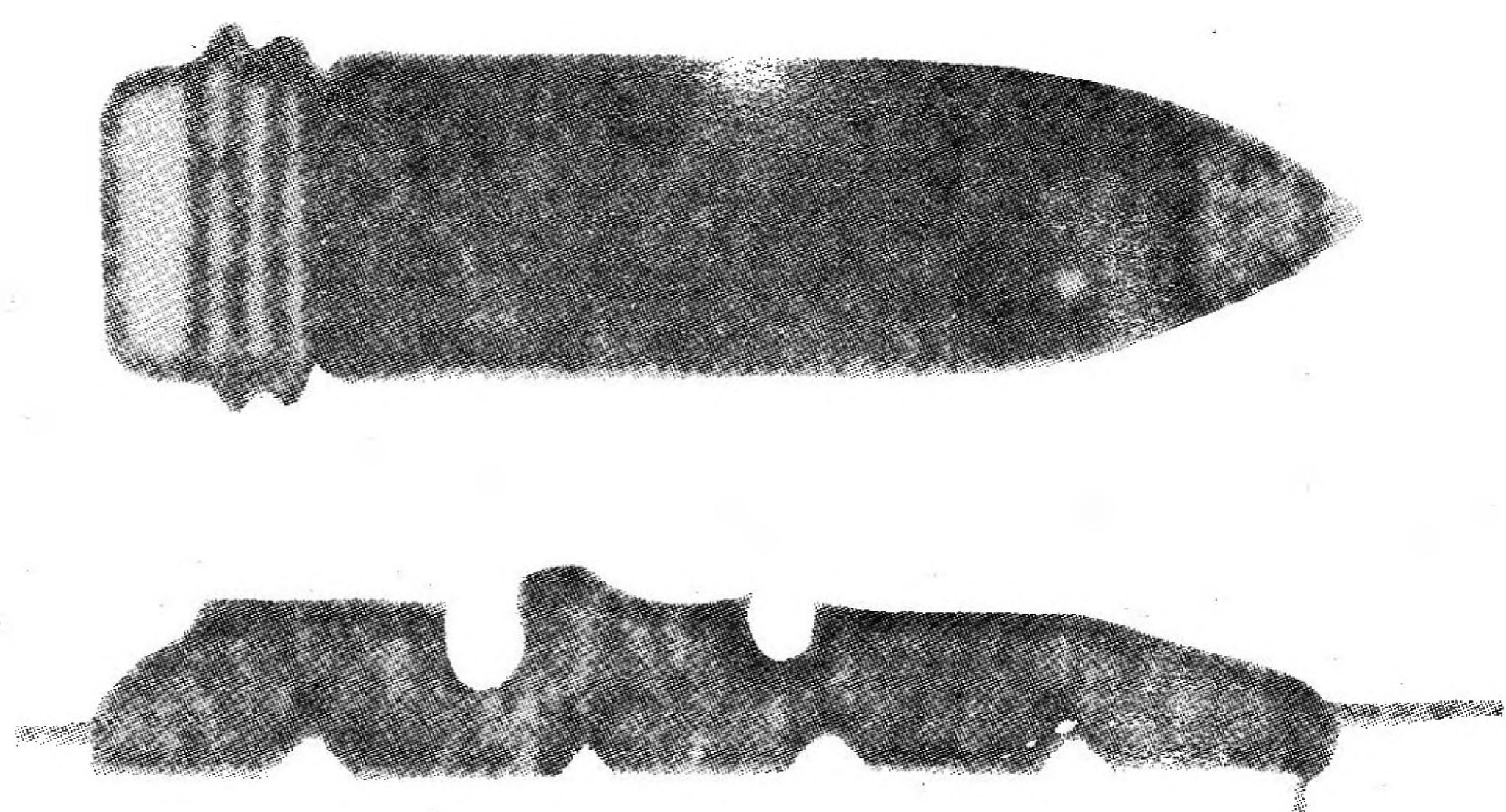
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* Type 88, Model 2

*Guns Used In:* 10th Year Type 12 cm 45 cal DP Gun

*Remarks:* Fixed ammunition. Projectiles with an unfilled base plug or without a bursting charge base plate have (火) stamped into the rotating band. Used for level firing.



Diameter: 120 mm

Designation: Time Practice Projectile

Color and Markings: Yellow nose, black body, two rows of white dots on ogive.

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 91 Time, Modif. 1

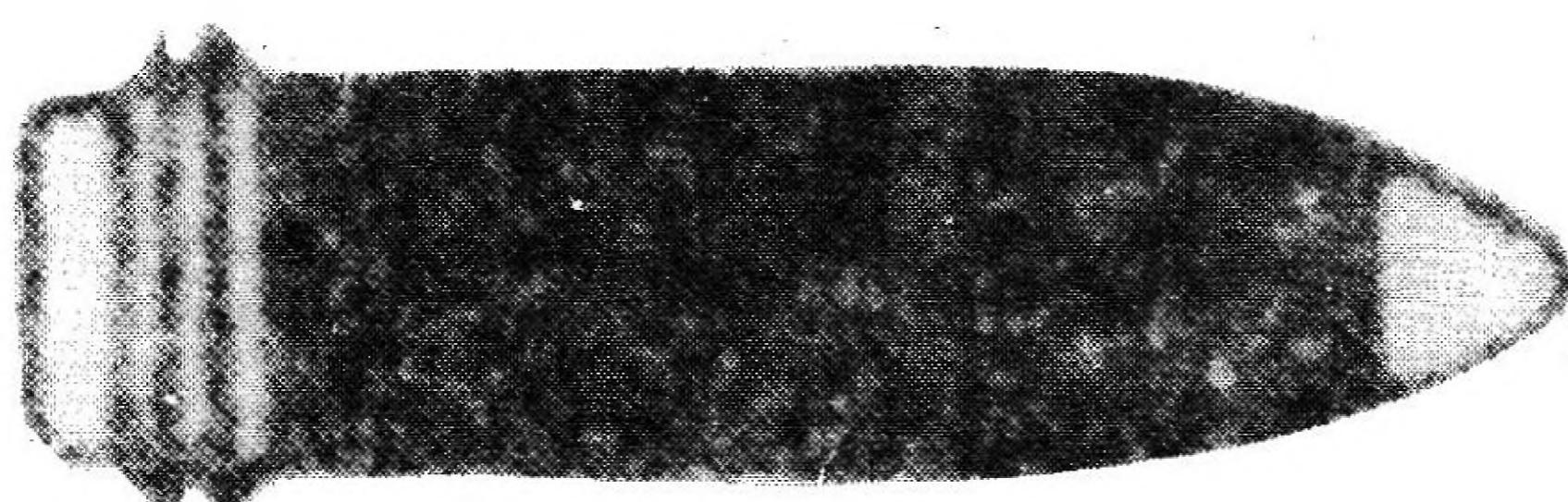
Guns Used In: 10th Year Type 12 cm 45 cal DP Gun

Remarks: Fixed ammunition

Projectiles with an unfilled base plug or without a bursting charge base plate have (改) stamped into the rotating band.

Rotating band same as shown for Practice projectile for this gun.

Used for AA firing.



*Diameter:* 120 mm

*Designation:* Mk. 1 Practice Projectile

*Color and Markings:* Yellow nose, black body, white central band

*Projectile Length:*

*Projectile Length With Fuze:*

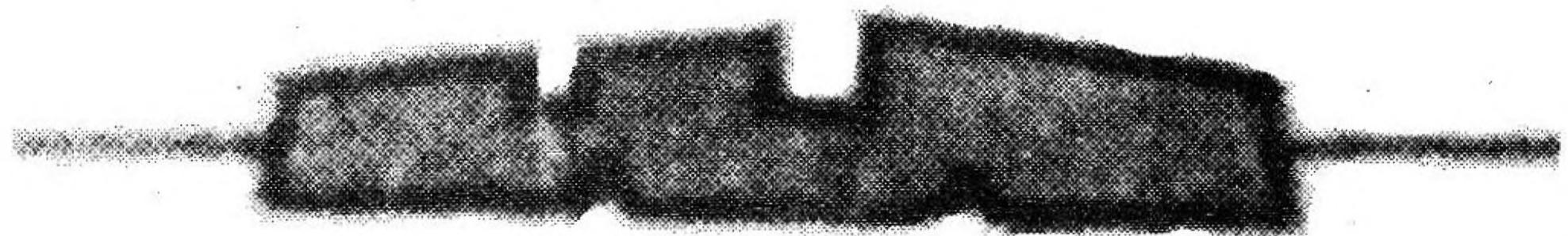
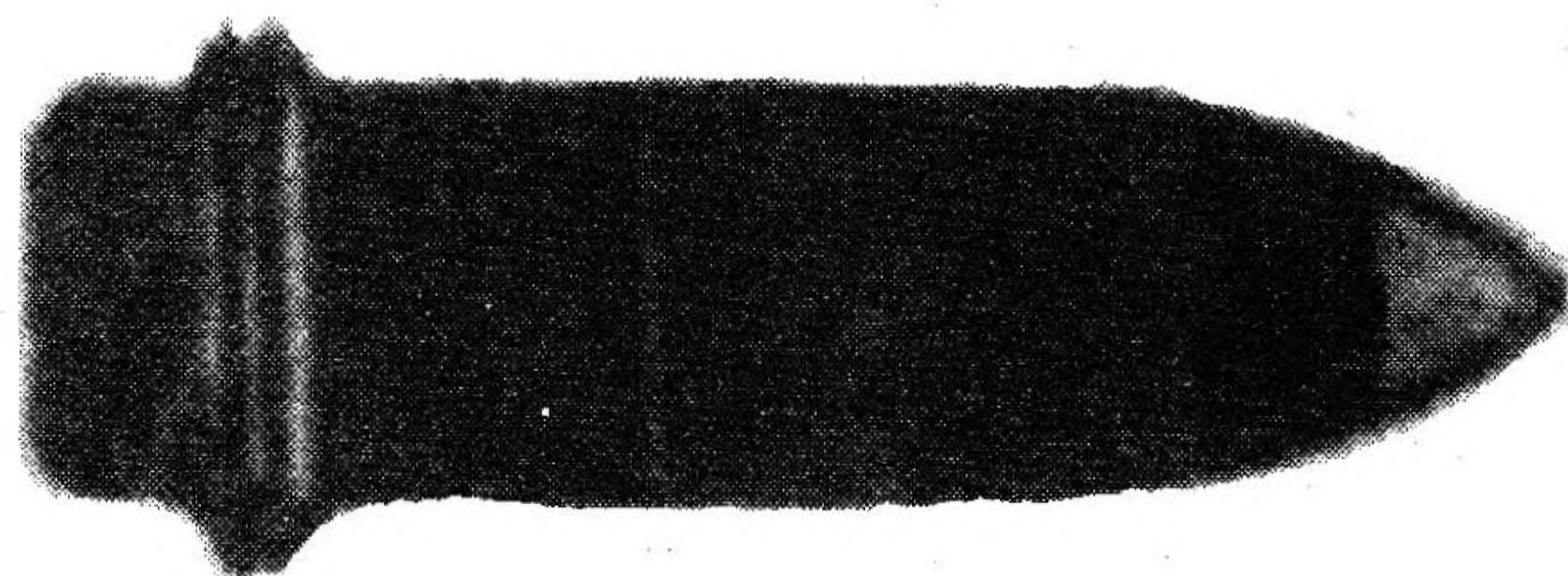
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 12 cm 40 cal Gun  
12 cm 45 cal Gun

*Remarks:* Ogive radius of 2 caliber



*Diameter:* 120 mm

*Designation:* I.k. 2 Practice Projectile

*Color and Markings:* Yellow nose, black body, white central band

*Projectile Length:*

*Projectile Length With Fuze:*

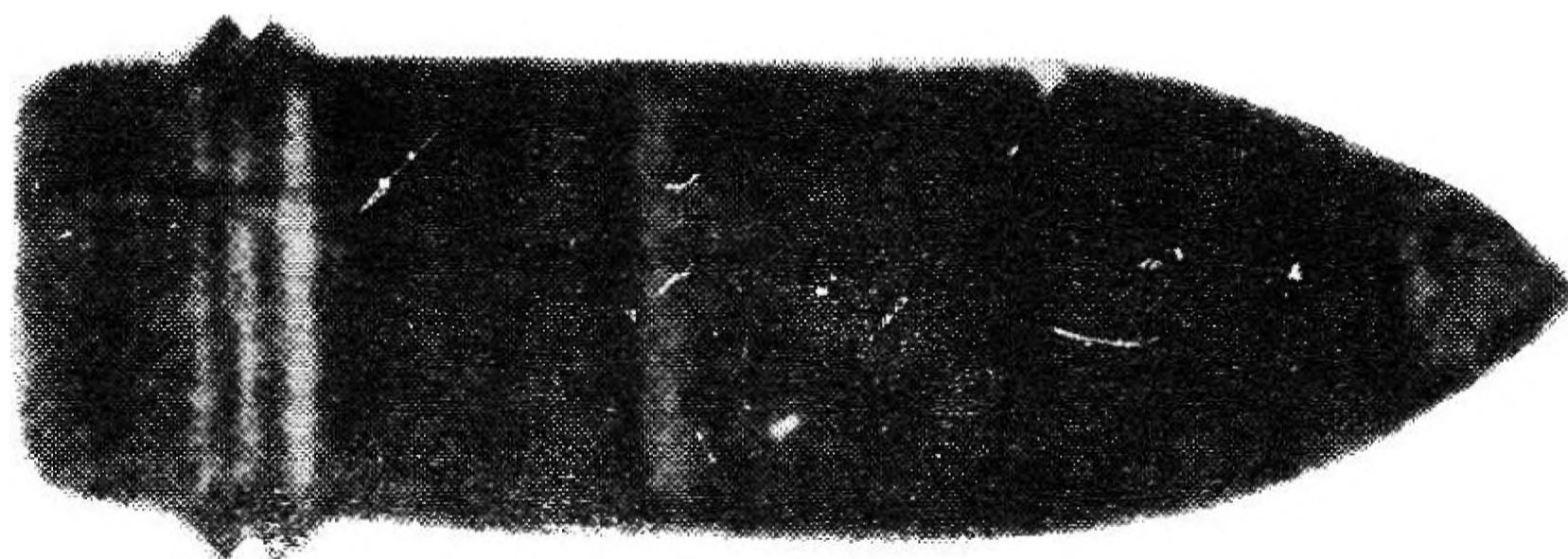
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 12 cm 40 cal Gun  
12 cm 45 cal Gun

*Remarks:* Ogive radius of 6 caliber



JAPANESE PROJECTILES.  
CINCPAC-CINCPOA BULLETIN 85-45.

CONFIDENTIAL.  
30 APRIL 1945

*Diameter:* 120 mm

*Designation:* Mk. 3 Practice Projectile

*Color and Markings:* Yellow nose, black body, white central band

*Projectile Length:* 383 mm

*Projectile Length With Fuze:*

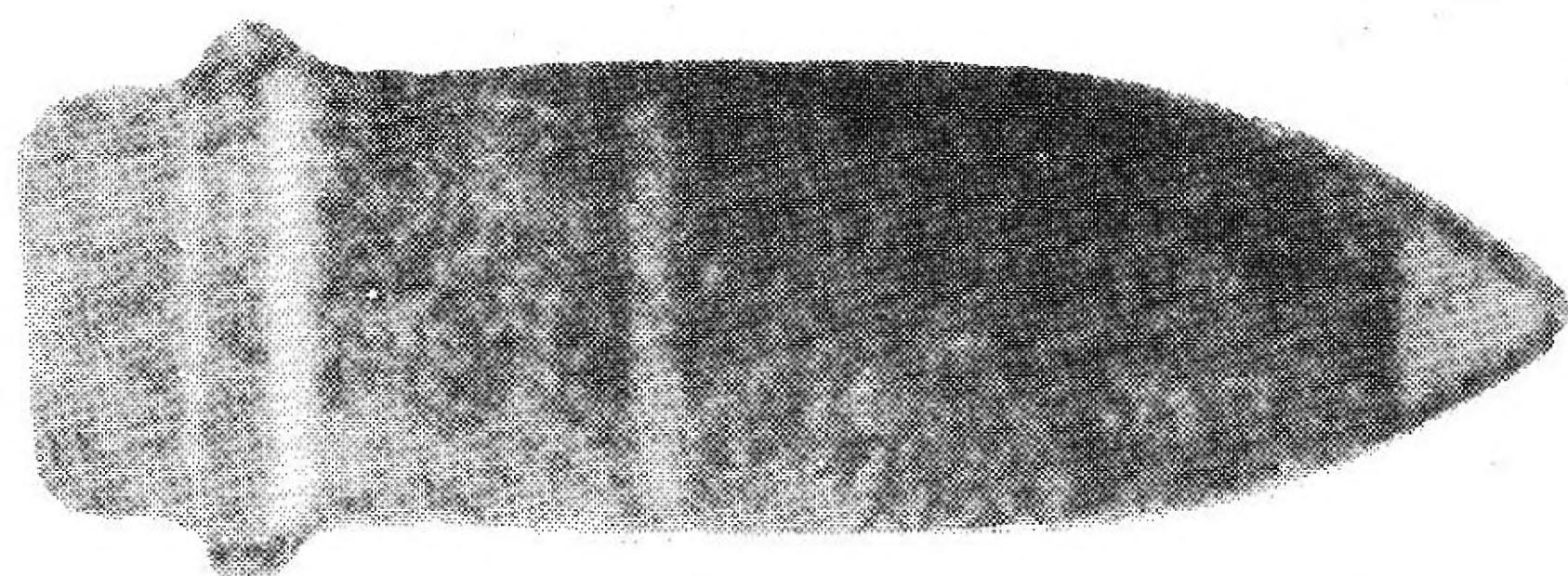
*Projectile Weight:* 20.45 kg

*Weight and Type of Filling:*

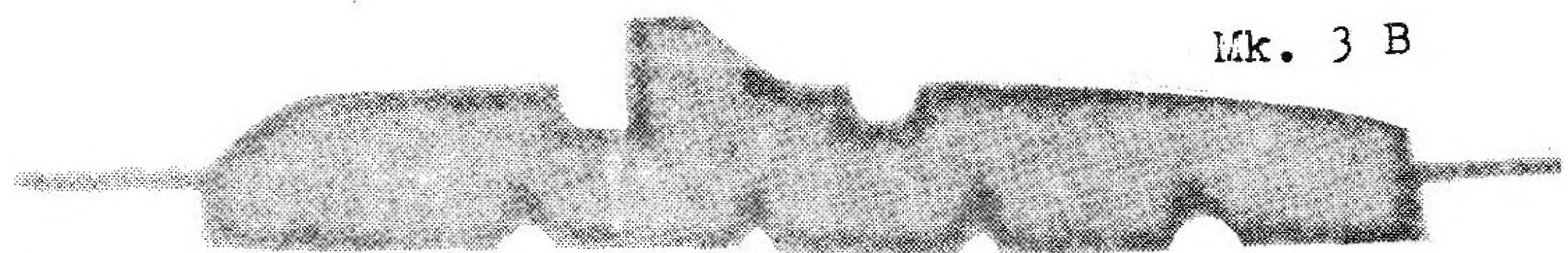
*Fuzing:*

*Guns Used In:* 12 cm 40 cal Gun  
12 cm 45 cal Gun

*Remarks:* Ogive radius of 4 caliber



Mk. 3 B



Mk. 3 A



*Diameter:* 120 mm

*Designation:* Target Projectile

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

*Weight and Type of Filling:*

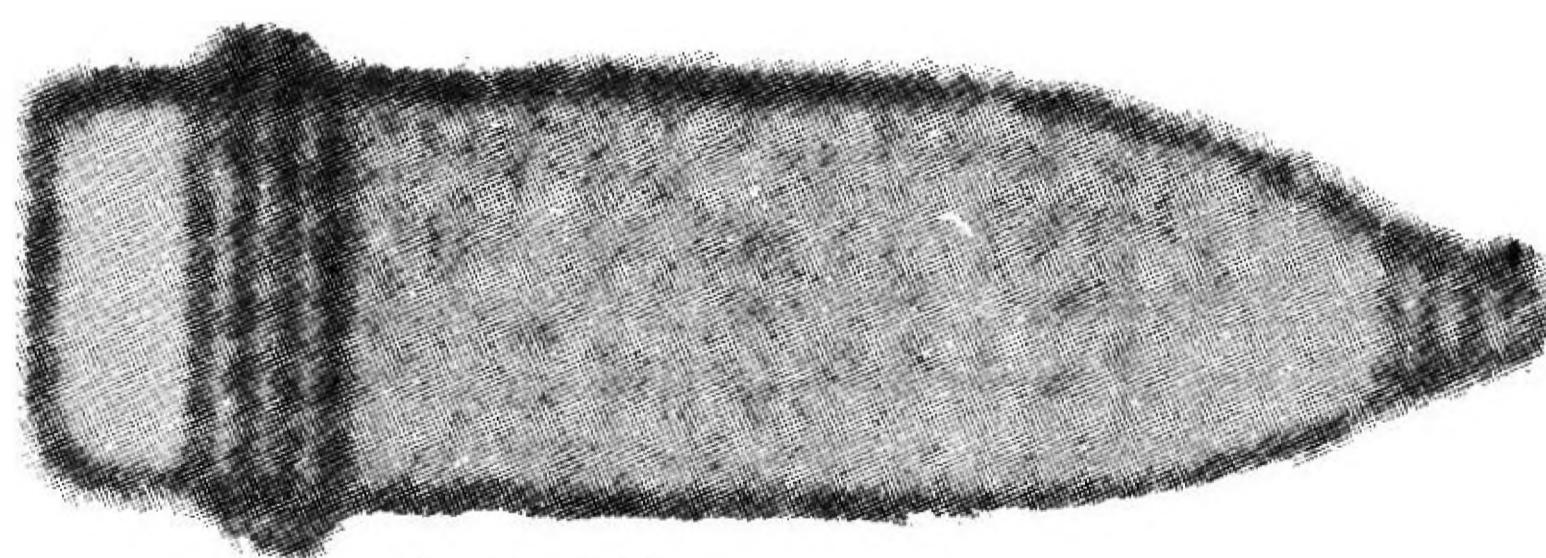
*Fuzing:* 30 Second Time

*Guns Used In:* 10th Year Type 12 cm 45 cal DP Gun

*Remarks:* Fixed ammunition

Projectiles with an unfilled base plug or without a bursting charge base plate have (改) stamped into the rotating band.

Rotating band same as for Practice projectile for this gun.



*Diameter:* 120 mm

*Designation:* Star Projectile

*Color and Markings:* Blue body

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

*Weight and Type of Filling:*

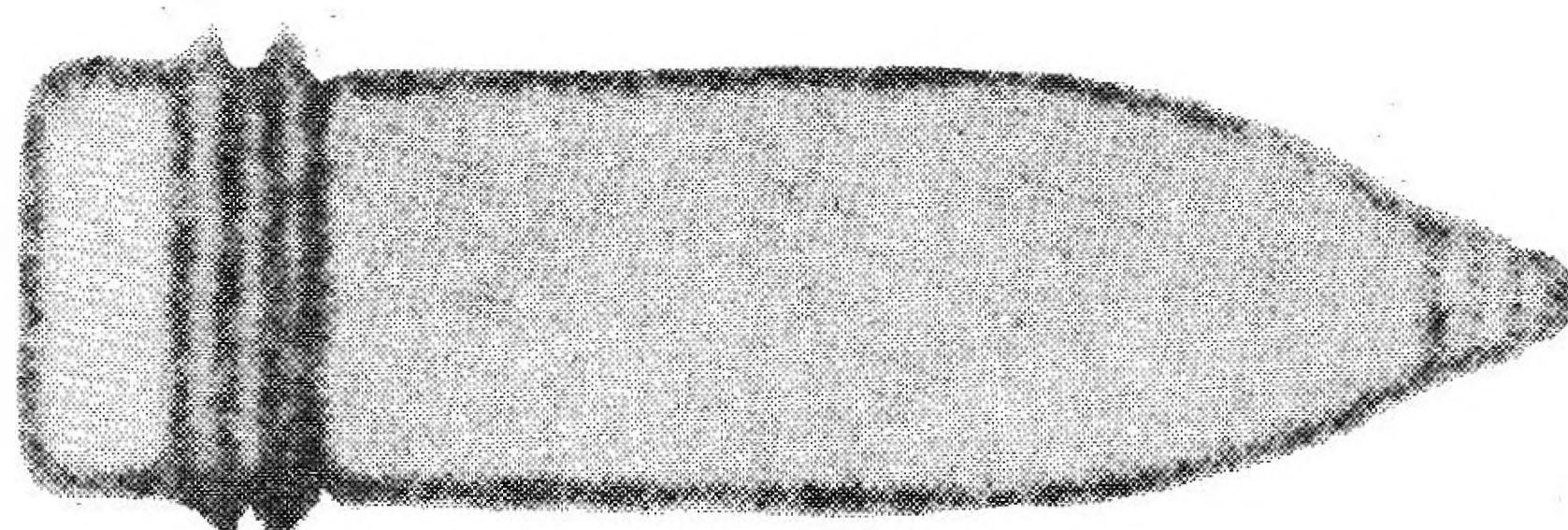
*Fuzing:*

*Guns Used In:* 12 cm 45 cal DP Gun

*Remarks:* Fixed ammunition

Projectiles with an unfilled base plug or without a bursting charge base plate have (改) stamped into the rotating band.

Rotating band same as shown for Practice projectile for this gun.



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30 APRIL 1945.

*Diameter:* 120 mm

*Designation:* Star Projectile

*Color and Markings:* Blue body

*Projectile Length:*

*Projectile Length With Fuze:*

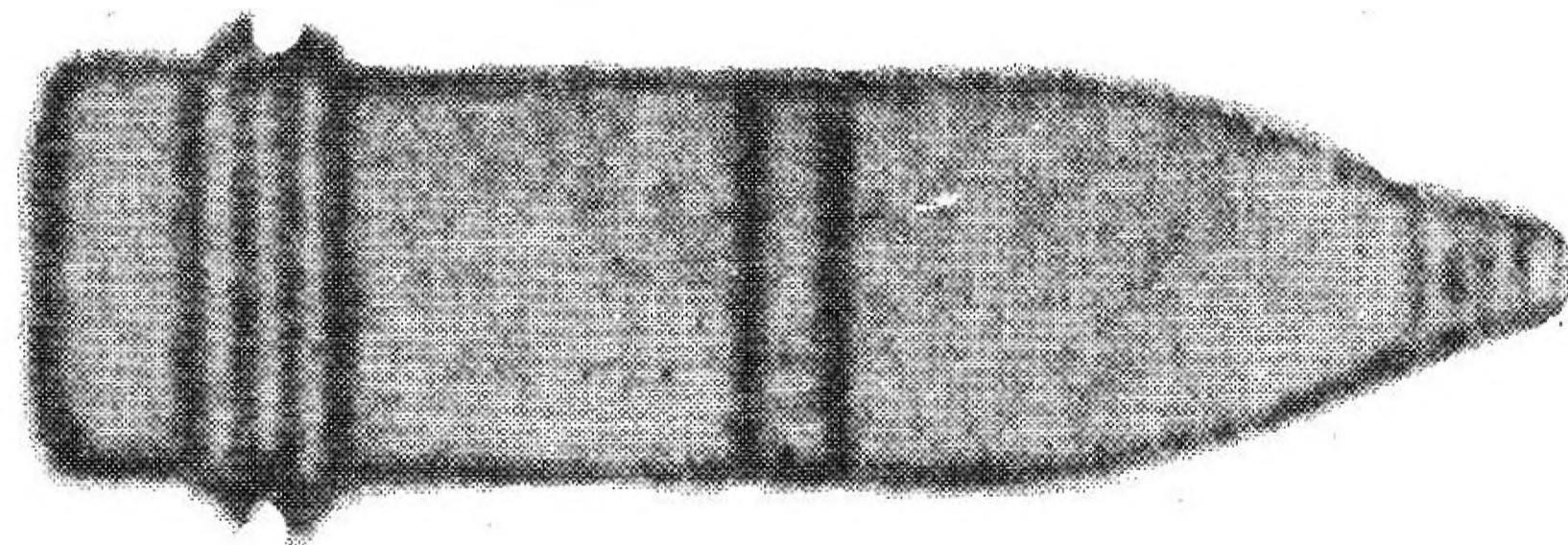
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 12 cm 40 cal Gun  
12 cm 45 cal Gun

*Remarks:*



*Diameter:* 120 mm

*Designation:* Barrage Projectile

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

*Weight and Type of Filling:* Type 91 Explosive powder  
Incendiary bursting charge

*Fuzing:* Type 91 Time, Modif. 1

*Guns Used In:* 12 cm Short Gun

*Remarks:* Used for AA firing

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30 APRIL 1945.

*Diameter:* 120 mm

*Designation:* Common Projectile

*Color and Markings:* Rust color

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* Type 88, Modif. 1      Type 91 Time, Modif. 1  
            Type 88                      Type 4  
            Type 88, Model 2

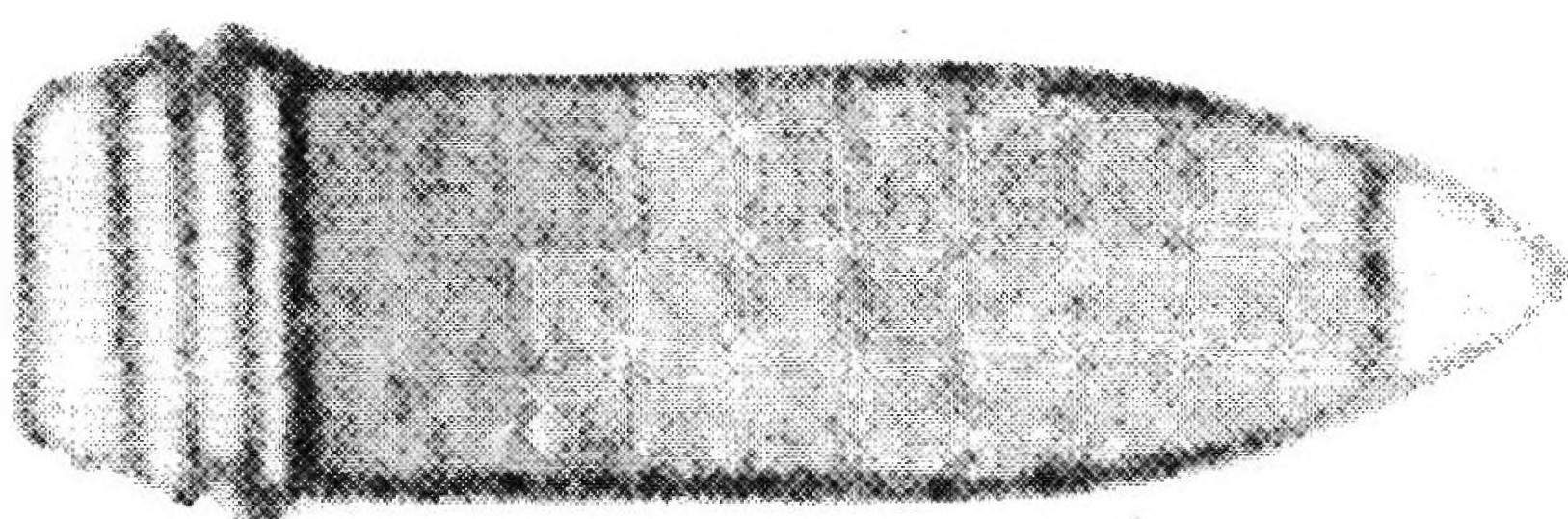
*Guns Used In:* 10th Year Type 12 cm 45 cal DP Gun

*Remarks:* Fixed ammunition

Projectiles with an unfilled base plug or  
without a bursting charge base plate have (改) stamp-  
ed into the rotating band.

Rotating band same as shown for Practice  
projectile for this gun.

Type 91 Fuze used for AA firing, Type 88  
fuze used for level firing and Type 4 Fuze used for  
both.



*Diameter:* 120 mm

*Designation:* Mk. 1 Common Projectile

*Color and Markings:* Rust color, yellow central band

*Projectile Length:*

*Projectile Length With Fuze:*

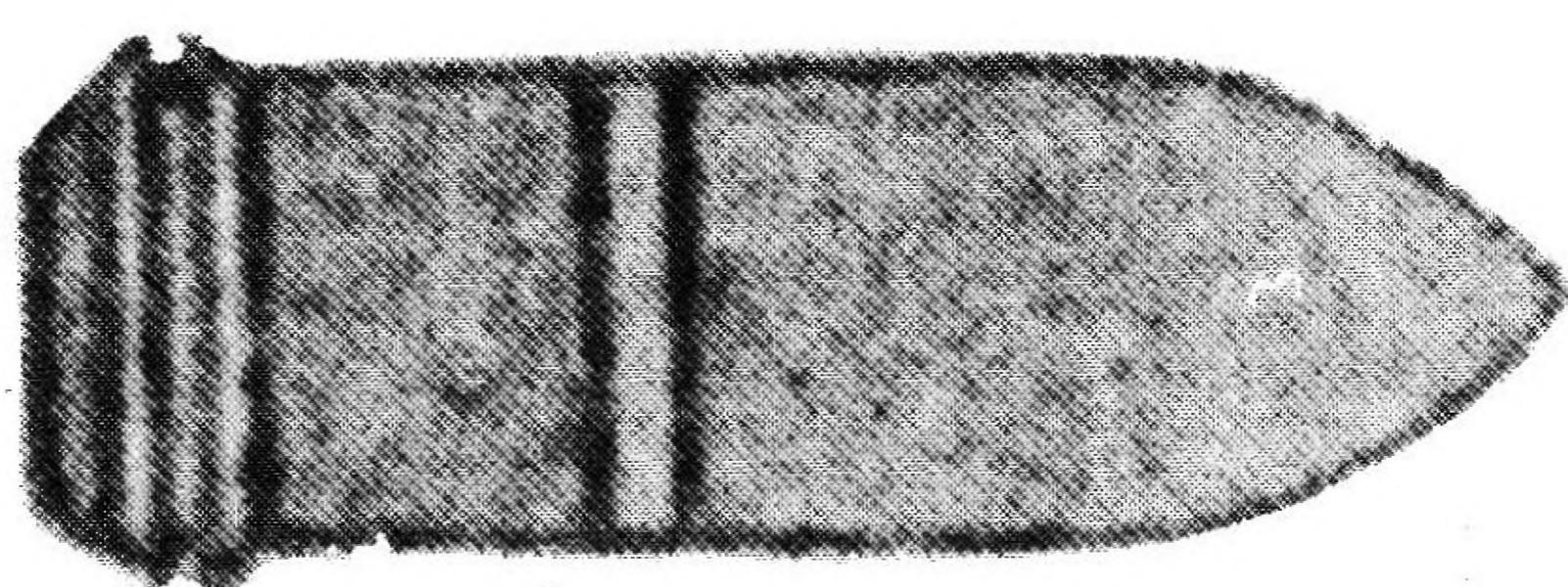
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* 5th Year Type Nose, Modif. 3

*Guns Used In:* 12 cm 40 cal Gun  
12 cm 45 cal Gun

*Remarks:* Ogive radius of 2 caliber  
Rotating band same as shown for Mk. 1 Practice  
projectile for these guns.



Diameter: 120 mm

Designation: Mk. 1 Common Projectile, Modif. 1

Color and Markings: Rust color, yellow central band

Projectile Length:

Projectile Length With Fuze:

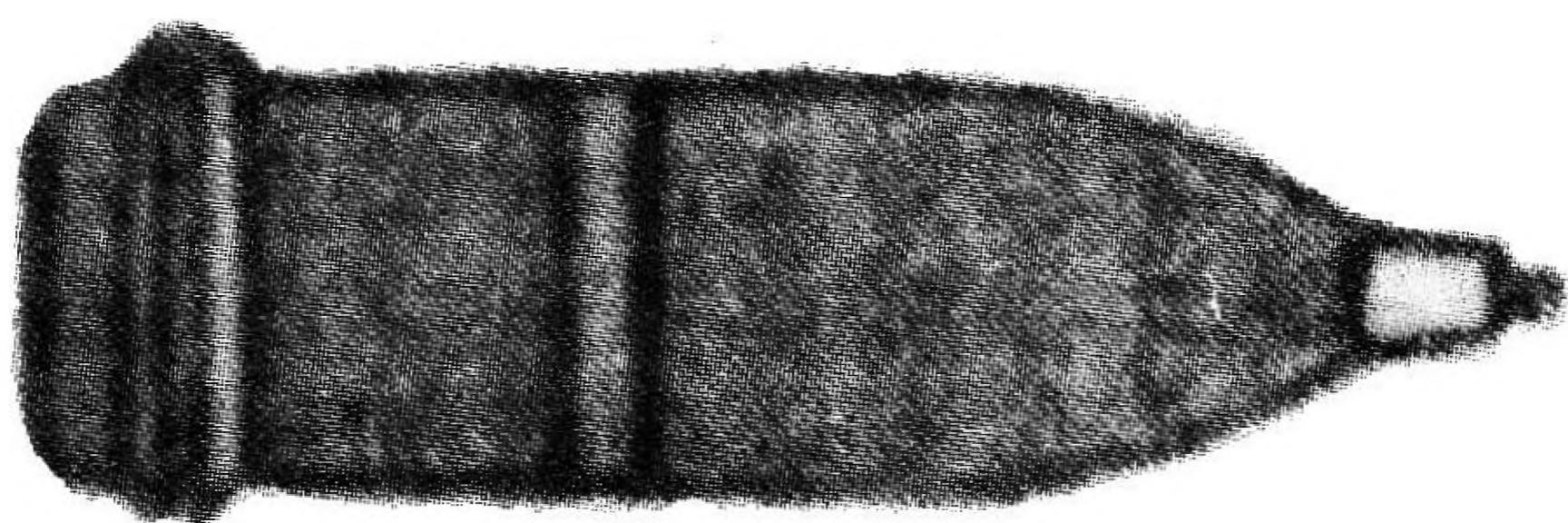
Projectile Weight:

Weight and Type of Filling:

Fuzing: 5th Year Type Nose, Modif. 3

Guns Used In: 12 cm 40 cal Gun  
12 cm 45 cal Gun

Remarks: Ogive radius of 2 caliber  
Rotating band same as shown for Mk. 1 Practice  
projectile for these guns



*Diameter:* 120 mm

*Designation:* Mk. 2 Common Projectile

*Color and Markings:* Rust color, yellow central band

*Projectile Length:*

*Projectile Length With Fuze:*

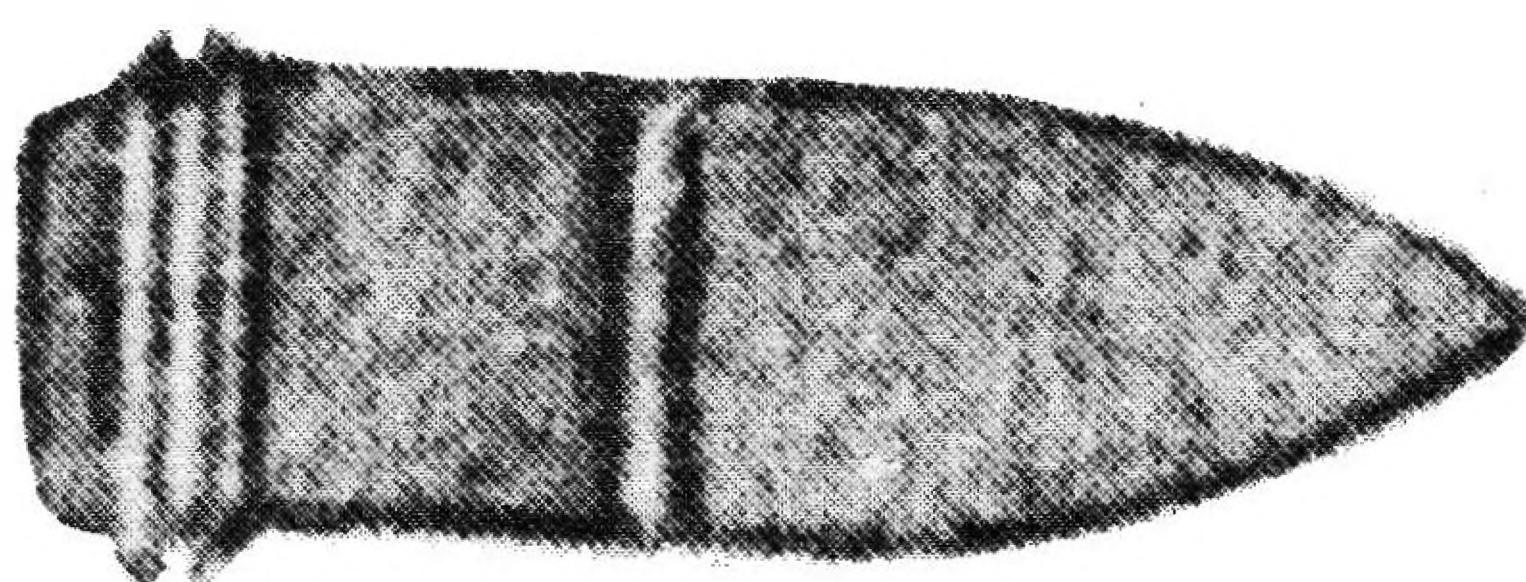
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* 5th Year Type Nose, Modif. 3

*Guns Used In:* 12 cm 40 cal Gun  
12 cm 45 cal Gun

*Remarks:* Ogive radius of 6 caliber  
Rotating band same as shown for Mk. 2 Practice  
projectile for these guns.



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*Diameter:* 120 mm

*Designation:* Mk. 2 Common Projectile, Modif. 1, 2

*Color and Markings:* Rust color, yellow central band

*Projectile Length:*

*Projectile Length With Fuze:*

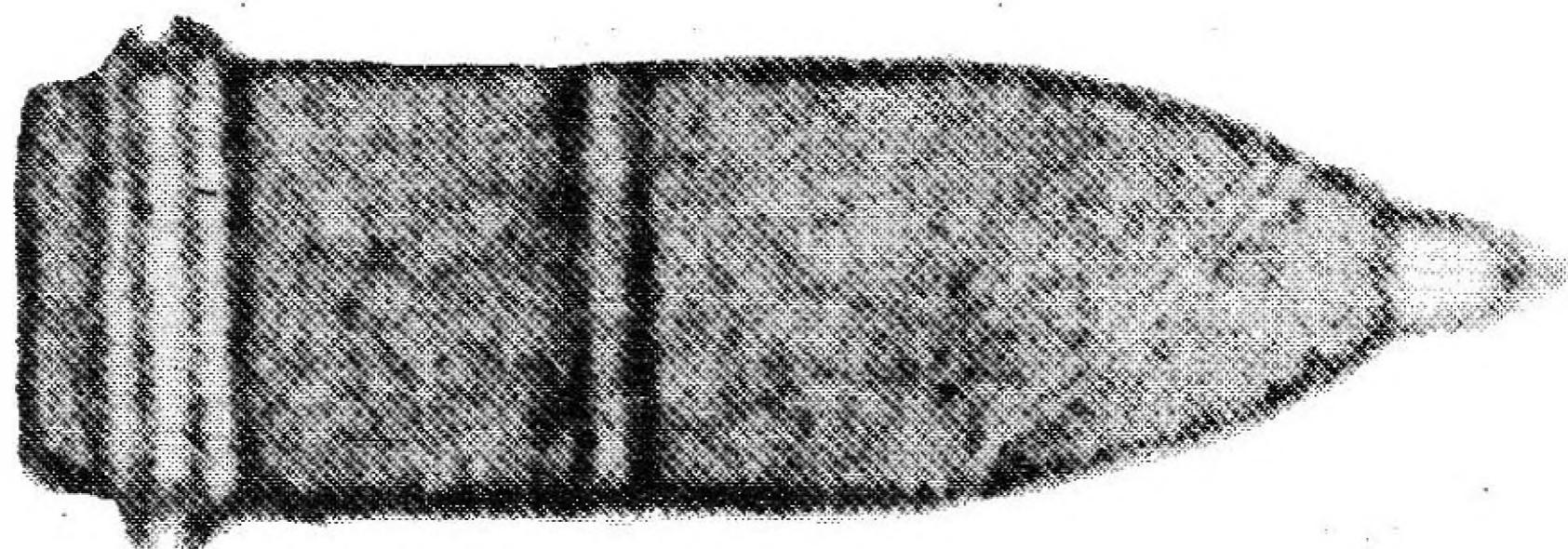
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* Type 2 (TN: Formerly called 5th Year Type  
Nose Fuze)

*Guns Used In:* 12 cm 40 cal Gun  
12 cm 45 cal Gun

*Remarks:* Ogive radius of 6 caliber  
Modif. 2 projectile has (改二) (vertically)  
stamped into the rotating band.  
Rotating band same as shown for Mk. 2  
Practice projectile for these guns.



*Diameter:* 120 mm

*Designation:* Mk. 3 Common Projectile

*Color and Markings:* Rust color, yellow central band

*Projectile Length:*

*Projectile Length With Fuze:*

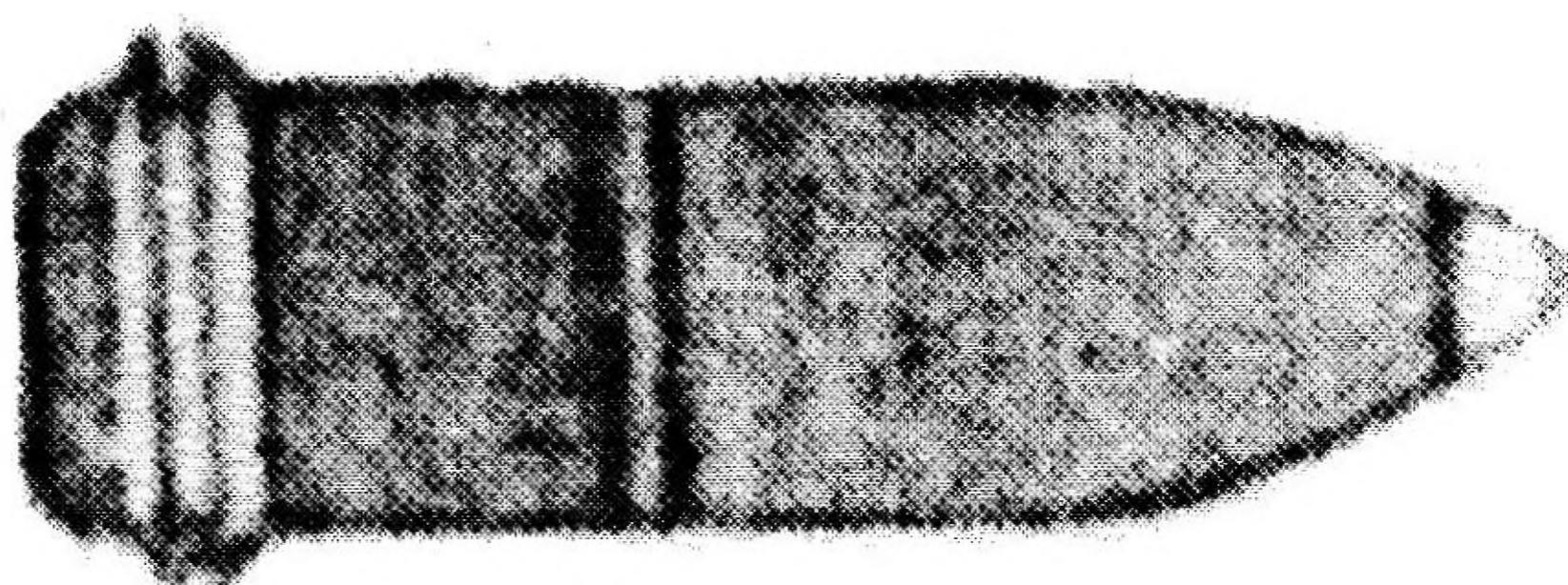
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* Type 2 (TN: Formerly called 5th Year Type  
Nose Fuze)

*Guns Used In:* 12 cm 40 cal Gun  
12 cm 45 cal Gun

*Remarks:* Ogive radius of 4 caliber  
Rotating bands same as shown for Mk. 3 Practice  
projectile for these guns.



*Diameter:* 120 mm

*Designation:* Mk. 3 Common Projectile, Modif. 1

*Color and Markings:* Rust color, yellow central band,  
(改一) (vertically) on ogive in white.

*Projectile Length:* 377.0 mm

*Projectile Length With Fuze:*

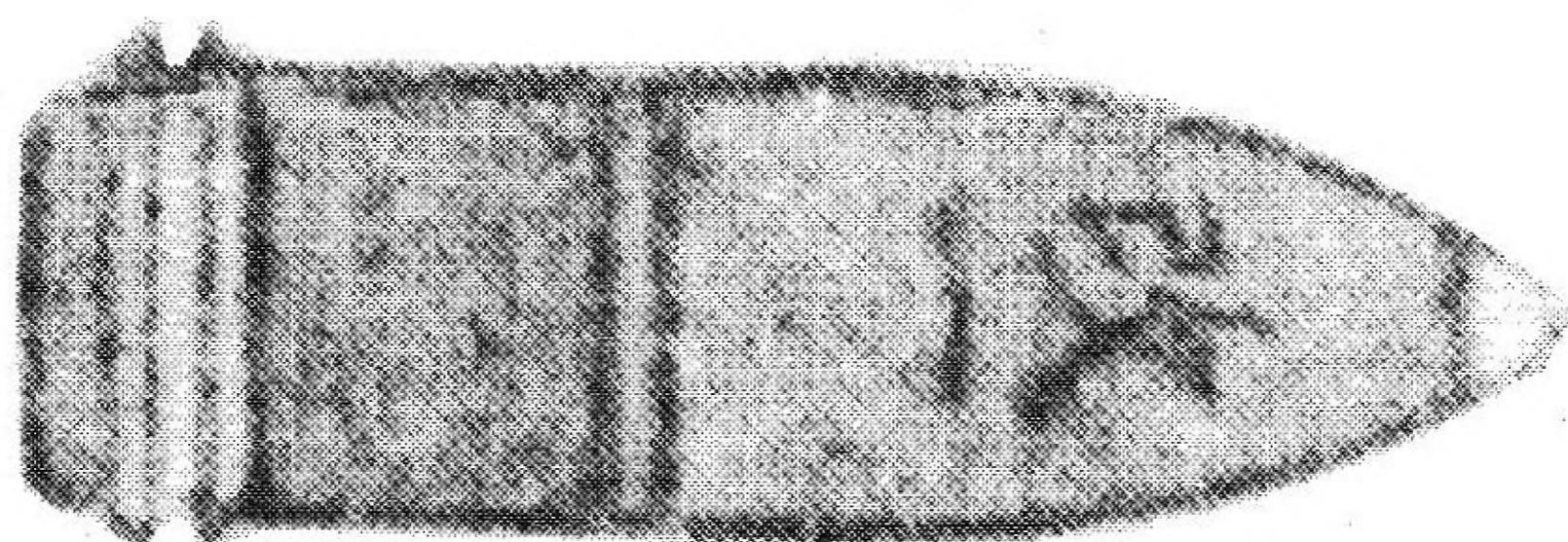
*Projectile Weight:* 20.34 kg

*Weight and Type of Filling:* Picric acid (cast) - 1.64 kg

*Fuzing:* Type 2 (TN: Formerly called 5th Year Type  
Nose Fuze)

*Guns Used In:* 12 cm 40 cal Gun  
12 cm 45 cal Gun

*Remarks:* Ogive radius of 4 caliber  
Rotating bands same as shown for Mk. 3  
Practice projectile for these guns.



*Diameter:* 120 mm

*Designation:* Mk. 4 Common Projectile

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* Type 88, Modif. 1  
Type 88, Model 2

*Guns Used In:* 12 cm 40 cal Gun

*Remarks:*

*Diameter:* 127 mm

*Designation:* Practice Projectile

*Color and Markings:* Yellow nose, black body, white central band

*Projectile Length:*

*Projectile Length With Fuze:*

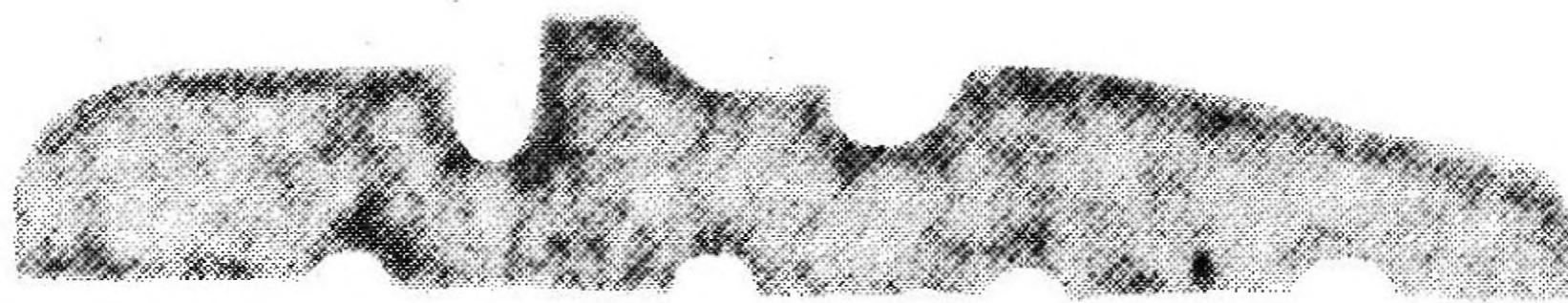
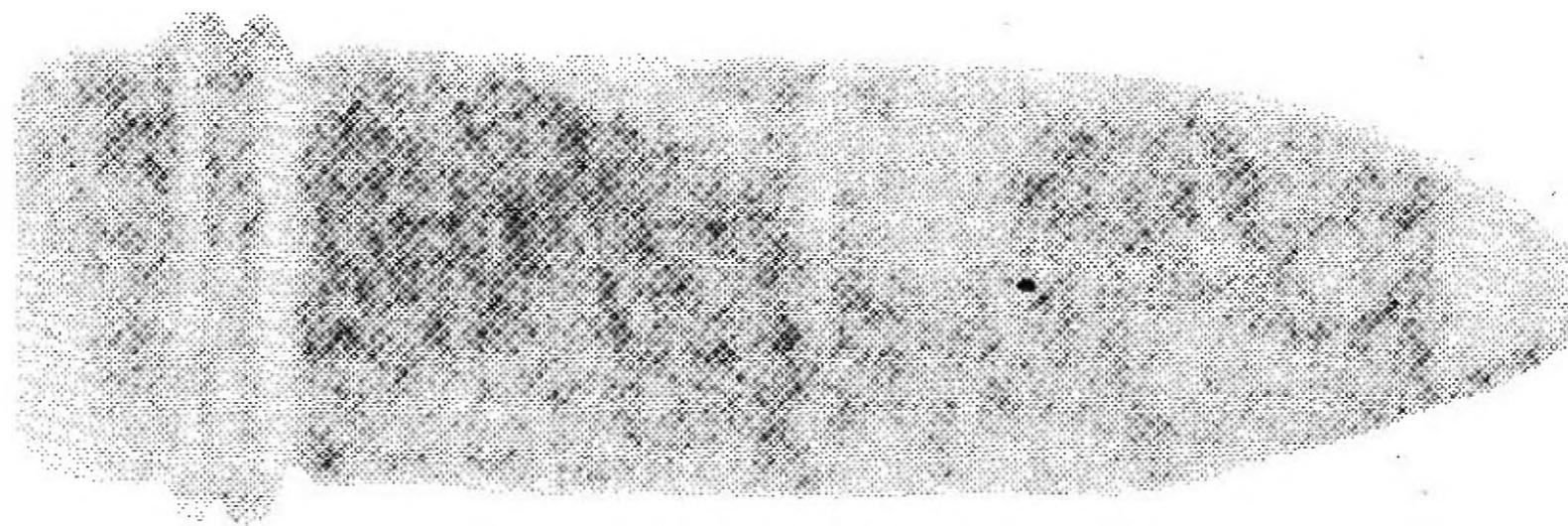
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 12.7 cm 50 cal Gun

*Remarks:* Projectiles with an unfilled base plug or without a bursting charge base plate have (改) stamped into the rotating band.



*Diameter:* 127 mm

*Designation:* Practice Projectile

*Color and Markings:* Yellow nose, black body

*Projectile Length:*

*Projectile Length With Fuze:*

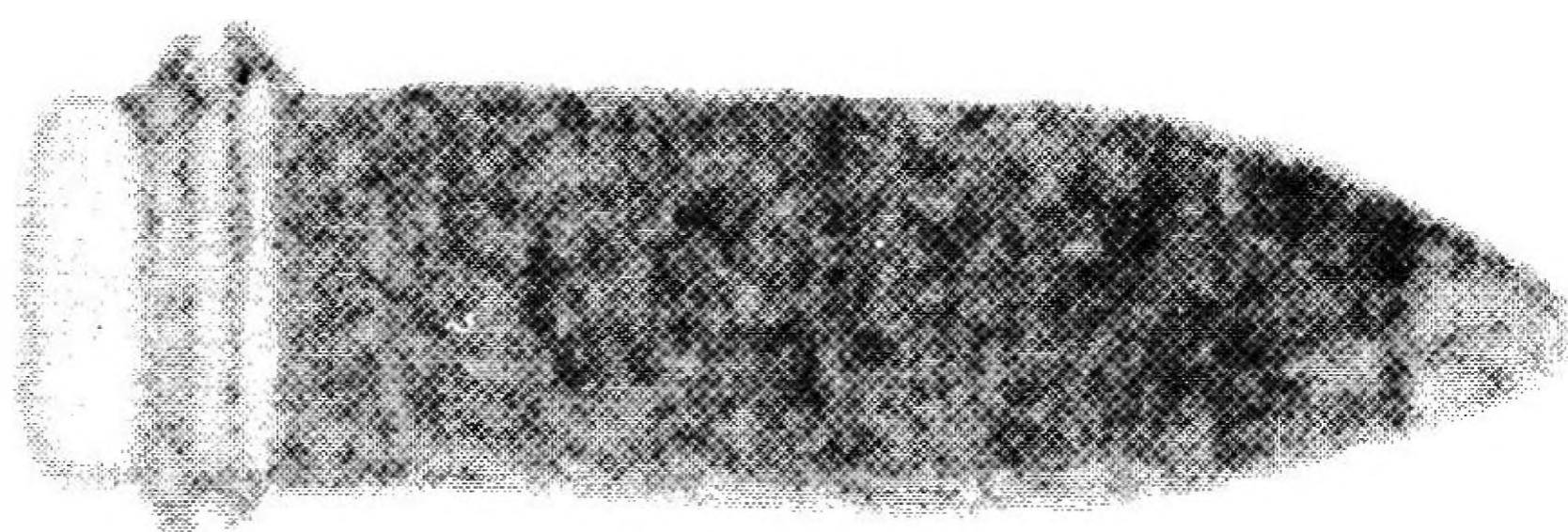
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* Type 88, Model 2

*Guns Used In:* Type 88 12.7 cm 40 cal DP Gun  
Type 89 12.7 cm 40 cal DP Gun

*Remarks:* Fixed ammunition  
Used for level firing



*Diameter:* 127 mm

*Designation:* Time Practice Projectile

*Color and Markings:* Yellow nose, black body, white central band, two rows of white dots on ogive.

*Projectile Length:*

*Projectile Length With Fuze:*

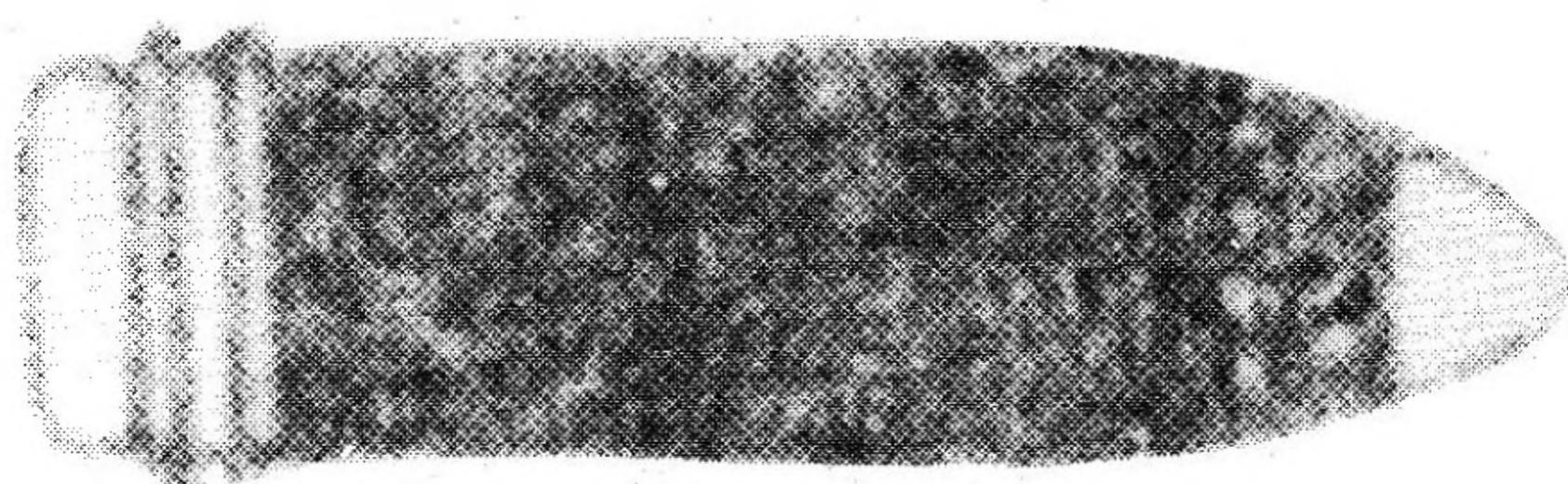
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* Type 91 Time, Modif. 1 (with gear wheel)

*Guns Used In:* Type 88 12.7 cm 40 cal D. P. Gun  
Type 89 12.7 cm 40 cal D. P. Gun

*Remarks:* Fixed ammunition. Rotating band same as shown for Practice projectile for this gun.  
Used for AA firing.



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*Diameter:* 127 mm

*Designation:* Time Practice Projectile

*Color and Markings:* Yellow nose, black body, white central band, two rows of white dots on ogive.

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

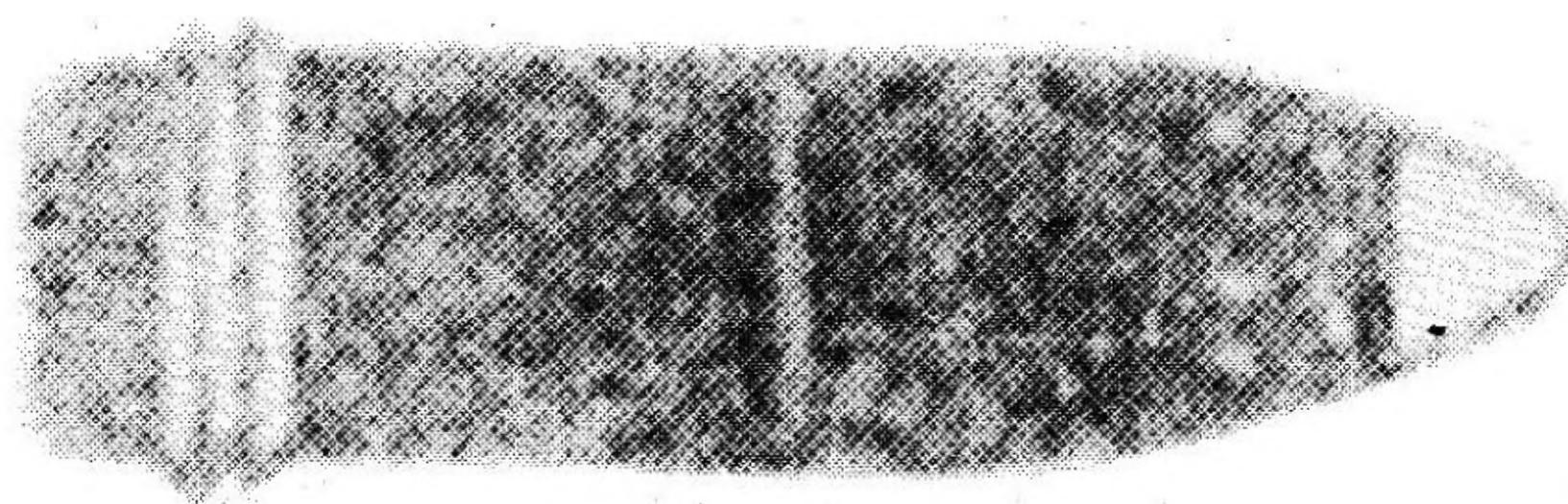
*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 12.7 cm 50 cal Gun

*Remarks:* Projectiles with an unfilled base plug or without a bursting charge base plate have (EX) stamped into the rotating band.

Rotating band same as shown for Practice projectile for this gun.



*Diameter:* 127 mm

*Designation:* Star Projectile

*Color and Markings:* Blue body, yellow central band

*Projectile Length:*

*Projectile Length With Fuze:*

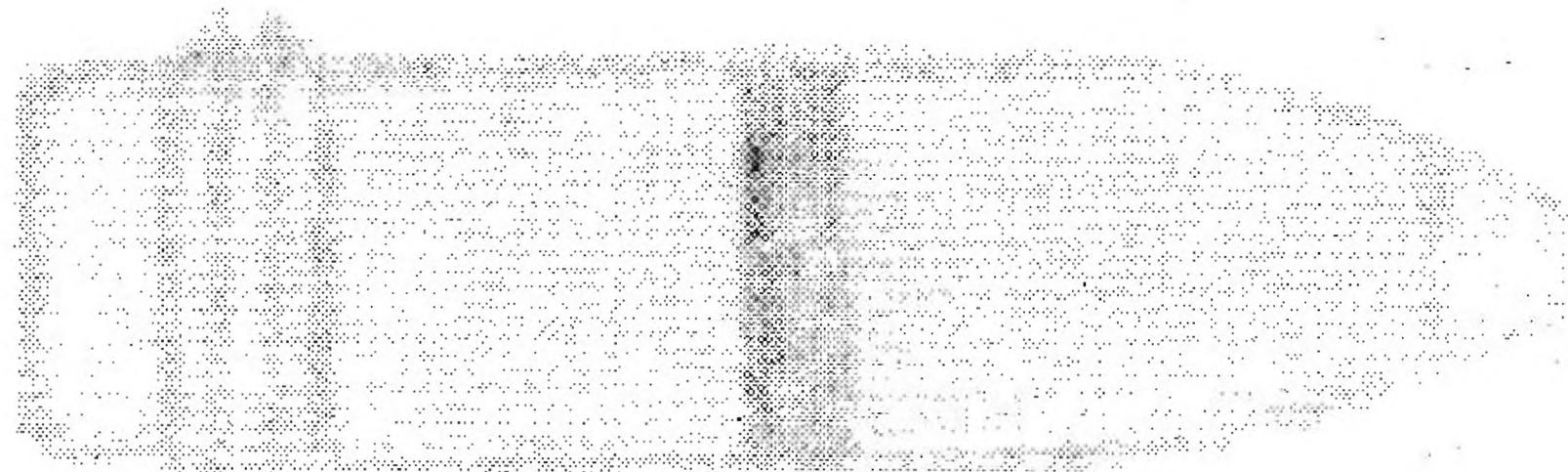
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 12.7 cm 50 cal Gun

*Remarks:* Rotating band same as shown for Practice projectile for this gun



Diameter: 127 mm

Designation: Common Projectile

Color and Markings: Rust color

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

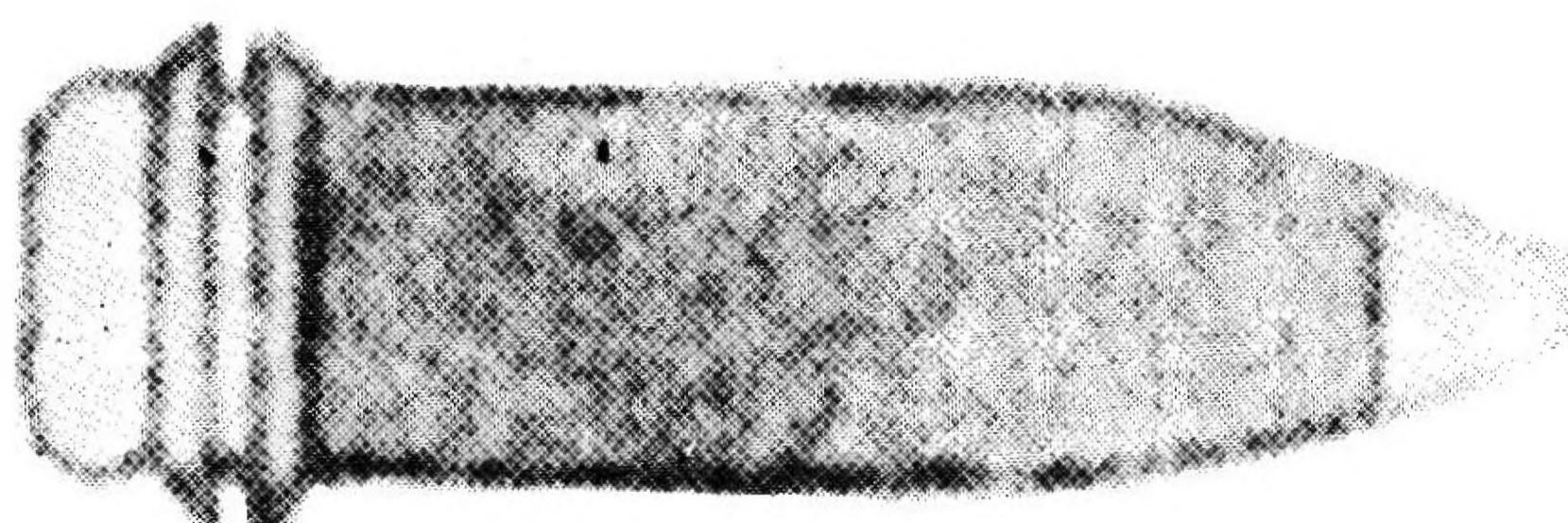
Fuzing: Type 88    Type 88, Modif. 1    Type 88, Model 2  
Type 91 Time, Modif. 1 (with gear wheel)    Type 4  
Temporarily Designated Anti-submarine, Model 2

Guns Used In: Type 88 12.7 cm 40 cal DP Gun  
Type 89 12.7 cm 40 cal DP Gun

Remarks: Fixed ammunition

Rotating band same as shown for Practice  
projectile for this gun

Type 91 Fuze used for AA firing, Type 88  
and Anti-submarine fuzes for level firing, and Type  
4 Fuze for both



Diameter: 127 mm

Designation: Common Projectile

Color and Markings: Rust color, yellow central band

Projectile Length:

Projectile Length With Fuze:

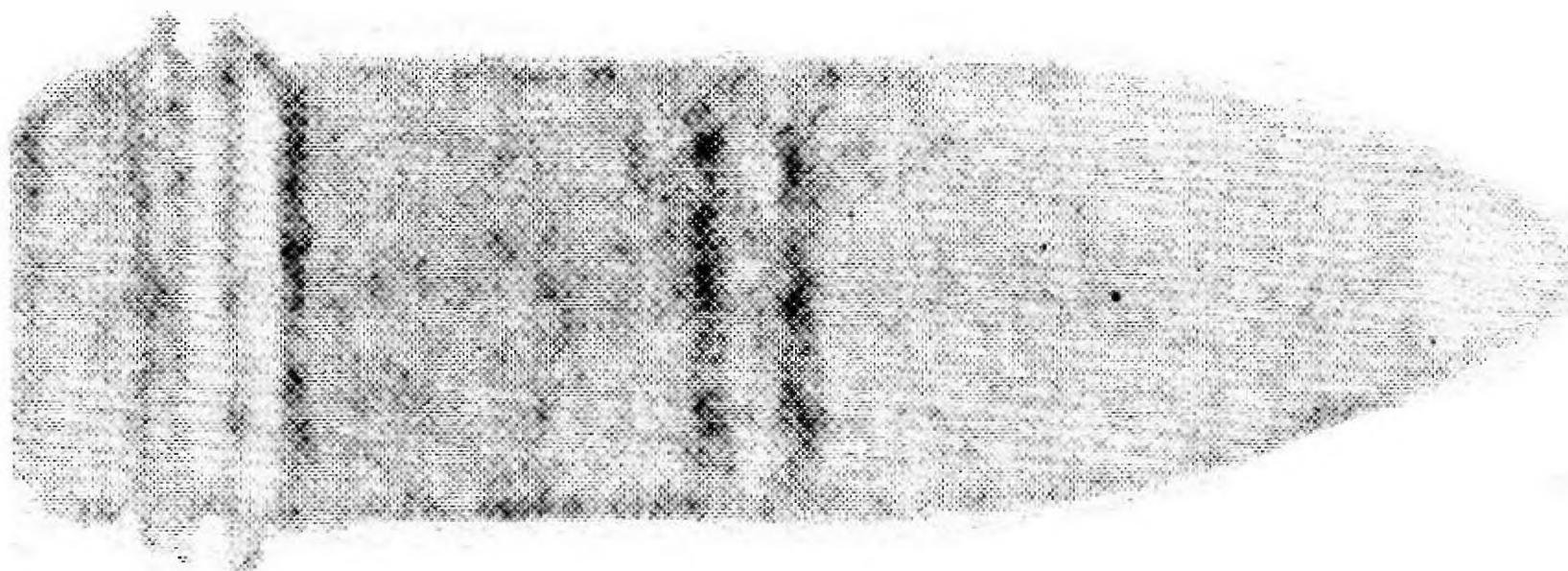
Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 88, Modif. 1  
Type 88, Model 2

Guns Used In: 12.7 cm 50 cal Gun

Remarks: Projectiles with an unfilled base plug or without a bursting charge base plate have ( 改 ) stamped into the rotating band. Rotating band same as shown for Practice projectile for this gun.



*Diameter:* 127 mm

*Designation:* Common Projectile (Used with specially reduced charge)

*Color and Markings:* Rust color, yellow central band, (特減用) (vertically) in white on nose-plug.

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

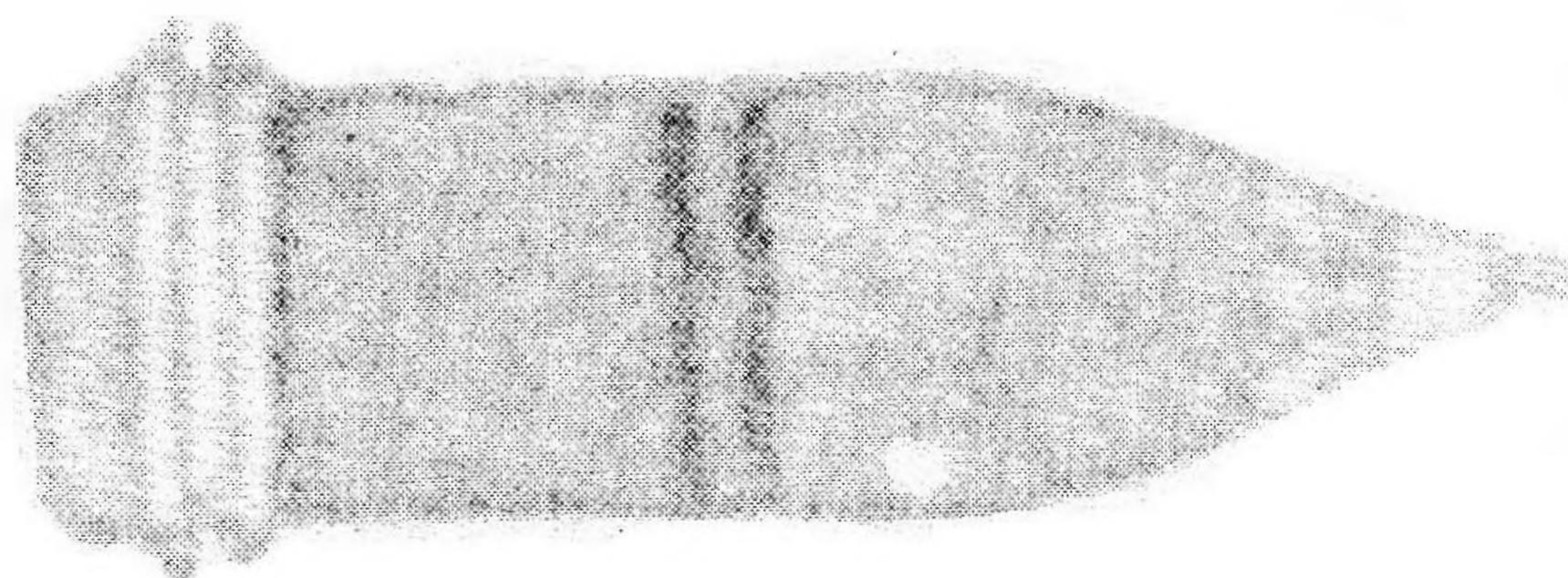
*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 12.7 cm 50 cal Gun

*Remarks:* Projectiles with an unfilled base plug, or without a bursting charge base plate have (改) stamped into the rotating band.

Rotating band same as shown for Practice projectile for this gun.



*Diameter:* 140 mm

*Designation:* Practice Projectile

*Color and Markings:* Yellow nose, black body, white central band

*Projectile Length:*

*Projectile Length With Fuze:* 543.7 mm

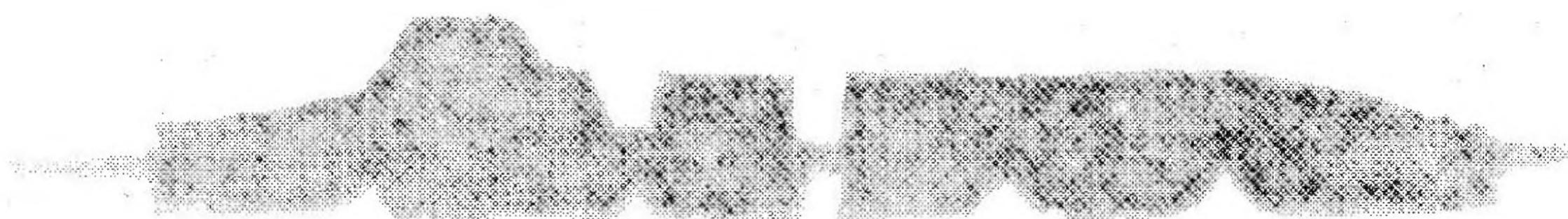
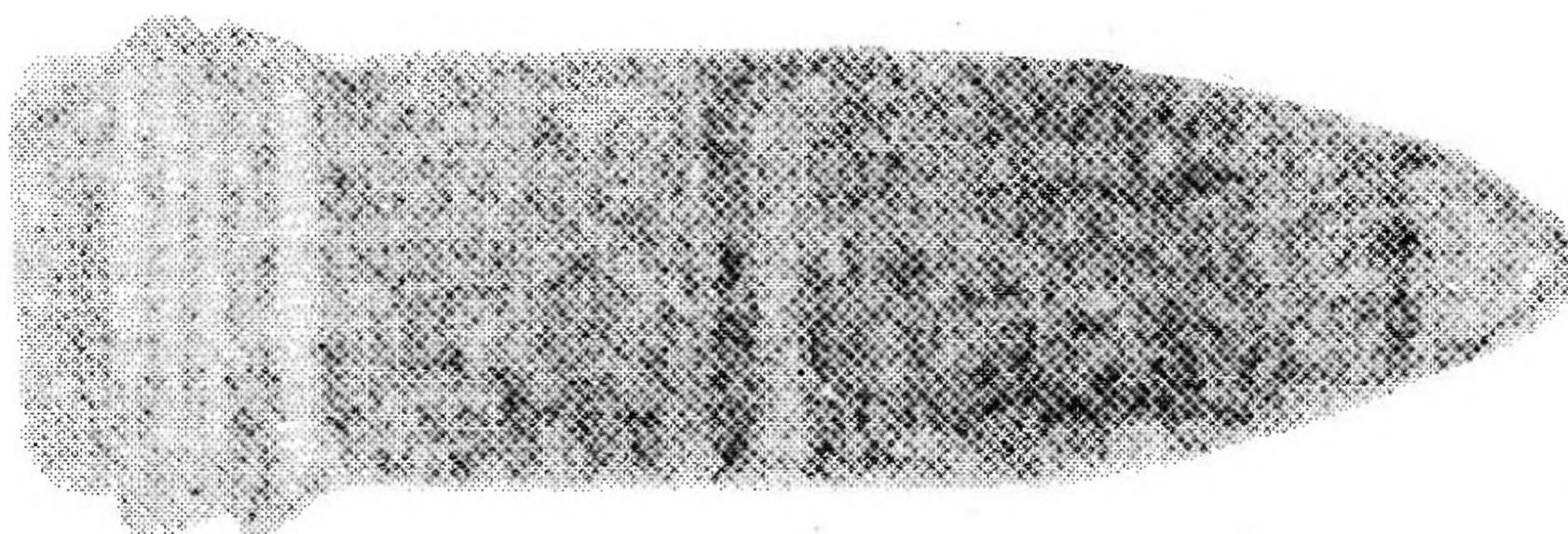
*Projectile Weight:* 38.00 kg

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 14 cm 50 cal Gun

*Remarks:*



*Diameter:* 140 mm

*Designation:* Practice Projectile

*Color and Markings:* Yellow nose, rust color body, yellow central band.

*Projectile Length:*

*Projectile Length With Fuze:*

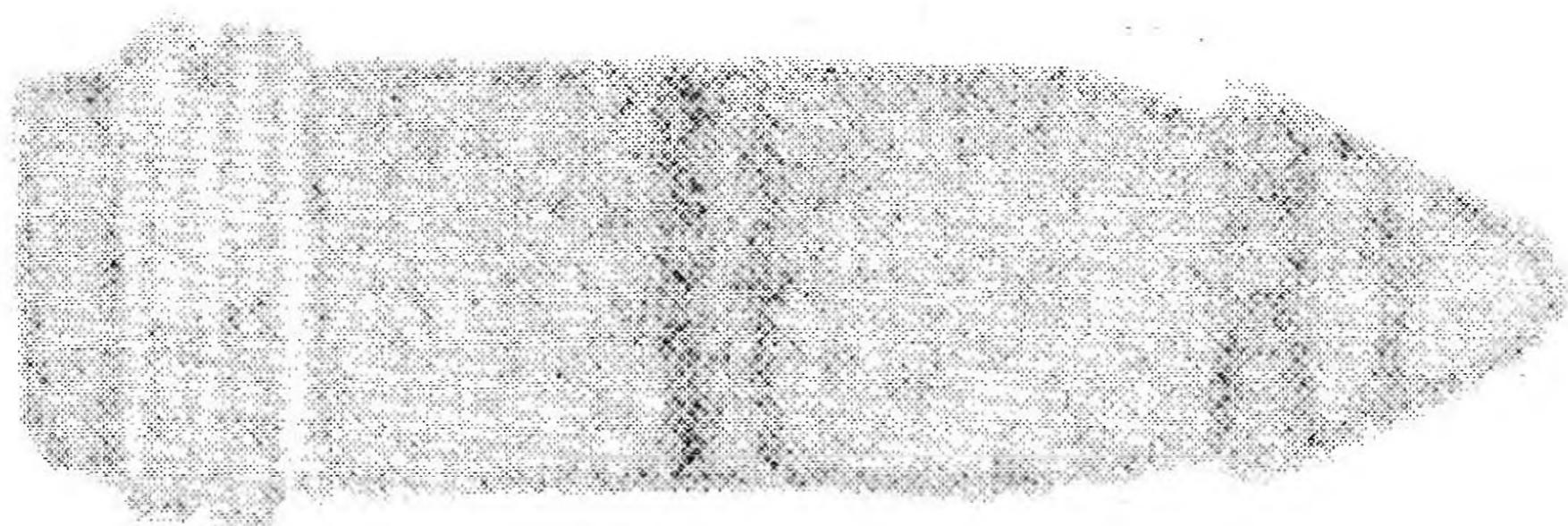
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 14 cm 50 cal Gun

*Remarks:* Converted from Capped Common projectile  
Rotating band same as shown for Practice projectile for this gun.



*Diameter:* 140 mm

*Designation:* Practice Projectile

*Color and Markings:* Yellow nose, black body, white central band

*Projectile Length:*

*Projectile Length With Fuze:*

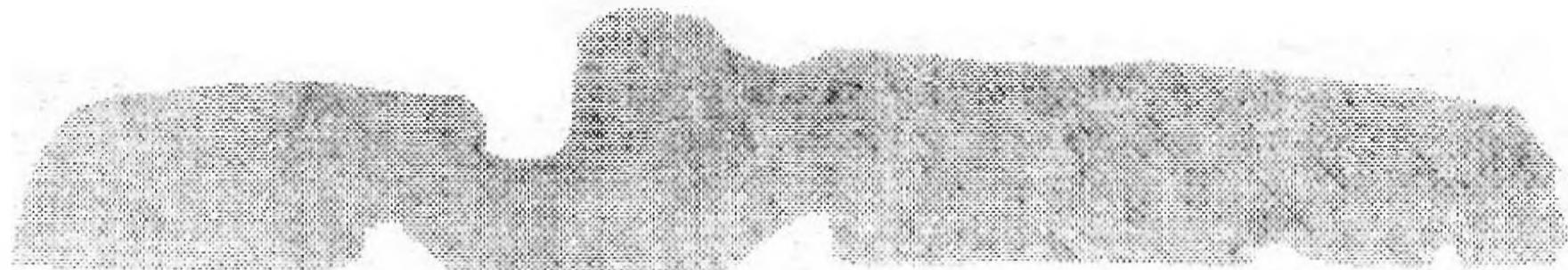
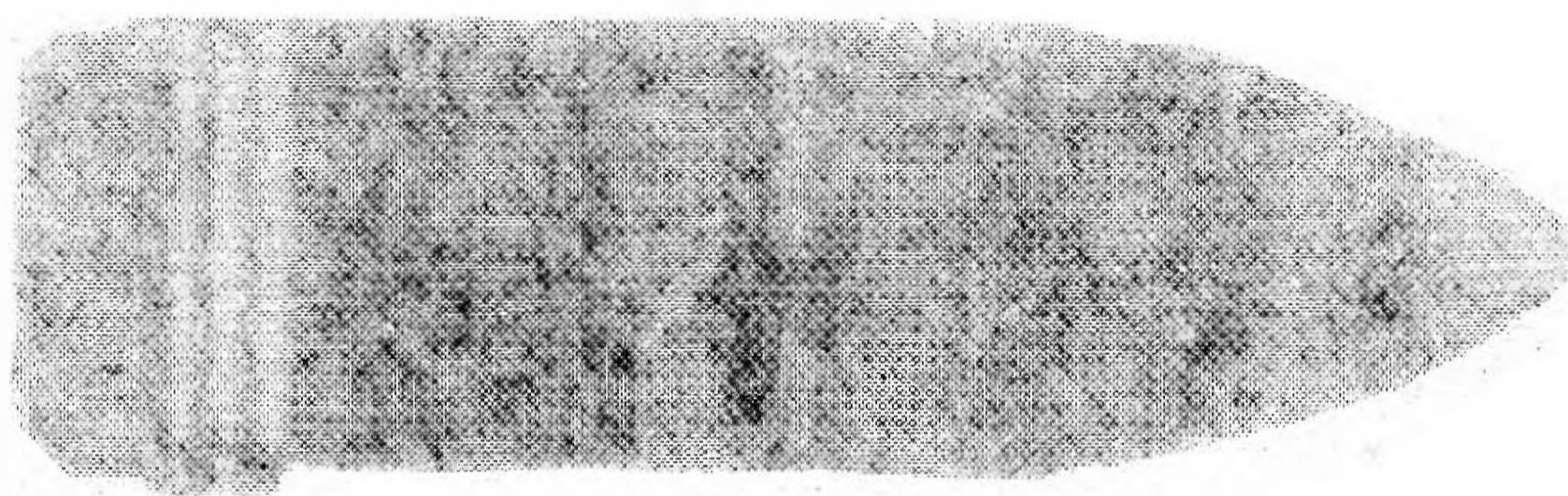
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 14 cm 40 cal Gun

*Remarks:*



*Diameter:* 140 mm

*Designation:* Star Projectile

*Color and Markings:* Blue body, yellow central band

*Projectile Length:*

*Projectile Length With Fuze:* 542.7 mm

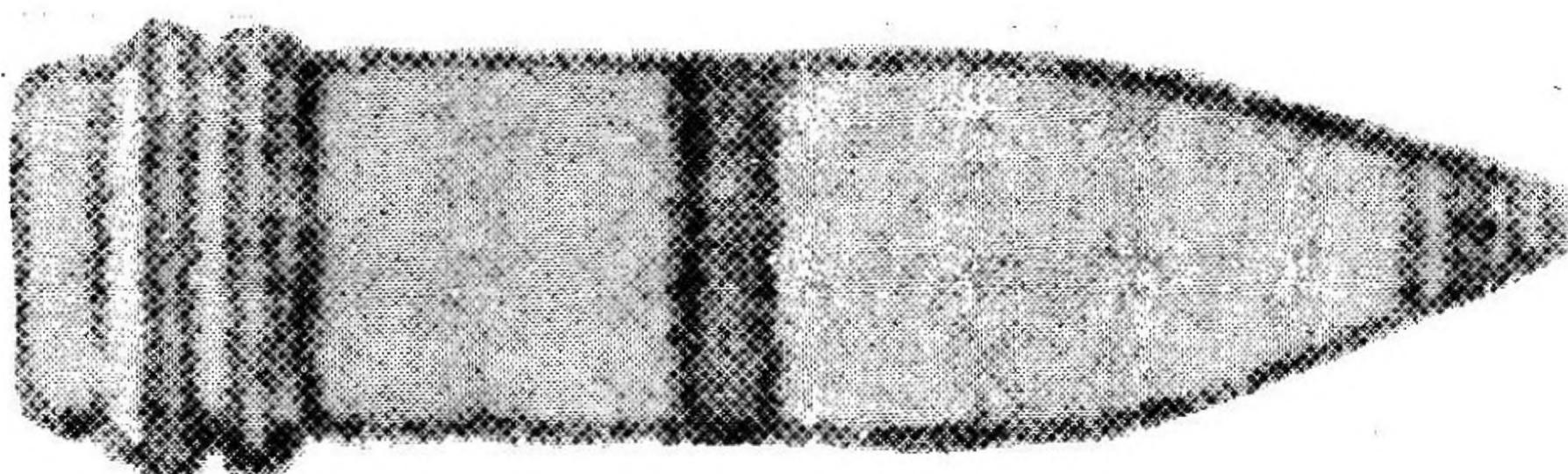
*Projectile Weight:* 38.00 kg

*Weight and Type of Filling:*

*Fuzing:* 30 Second Time

*Guns Used In:* 14 cm 50 cal Gun

*Remarks:* Rotating band same as shown for Practice projectile for this gun.



*Diameter:* 140 mm

*Designation:* Common Projectile

*Color and Markings:* Rust color, yellow central band

*Projectile Length:*

*Projectile Length With Fuze:*

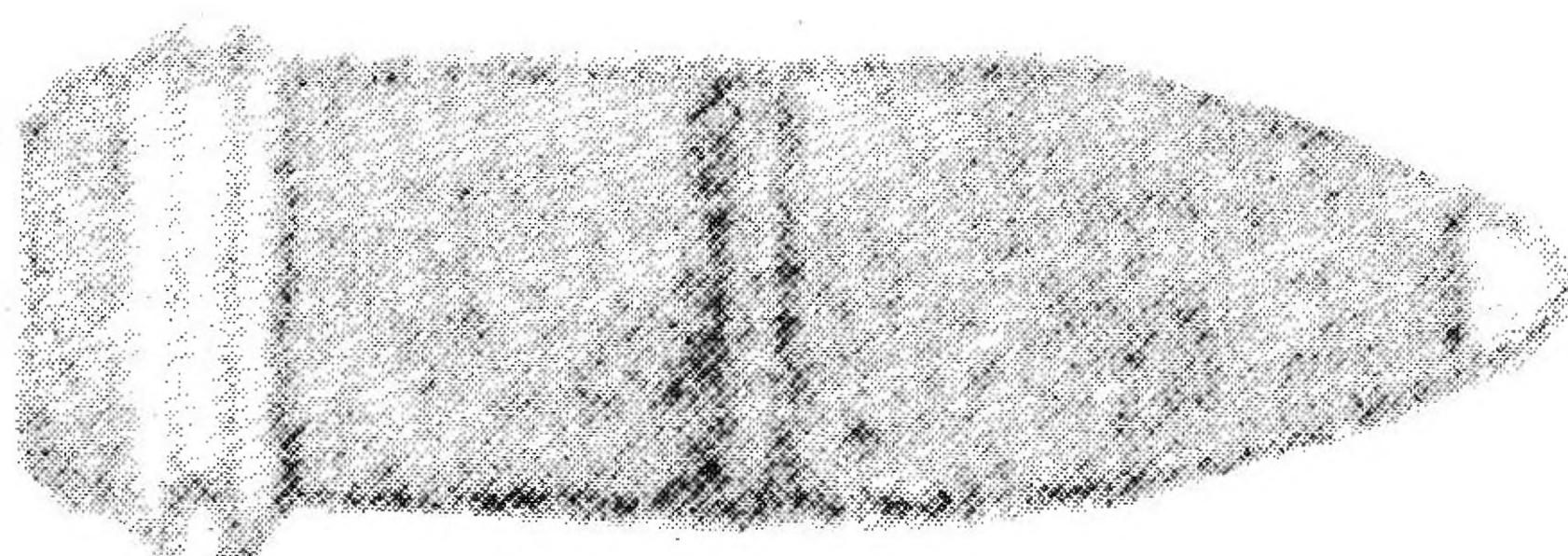
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* Type 2 (TN: Formerly called 5th Year Type Nose Fuze)

*Guns Used In:* 14 cm 40 cal Gun

*Remarks:* Rotating band same as shown for Practice projectile for this gun.



*Diameter:* 140 mm

*Designation:* Common Projectile, Modif. 1

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* Type 2 (TN: Formerly called 5th Year Type  
Nose Fuze)

*Guns Used In:* 14 cm 40 cal Gun

*Remarks:*

*Diameter:* 140 mm

*Designation:* Common Projectile (Used with specially reduced charge)

*Color and Markings:* Rust color, yellow central band, (特減用) (vertically) in white on the ogive.

*Projectile Length:*

*Projectile Length With Fuze:* 598.55 mm

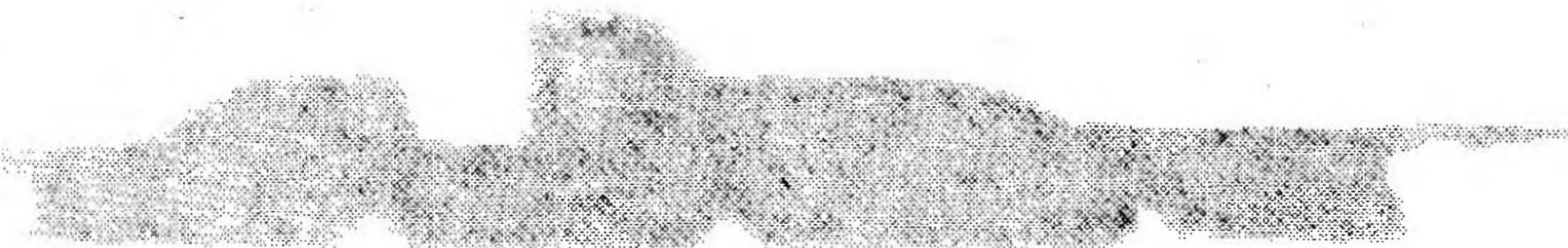
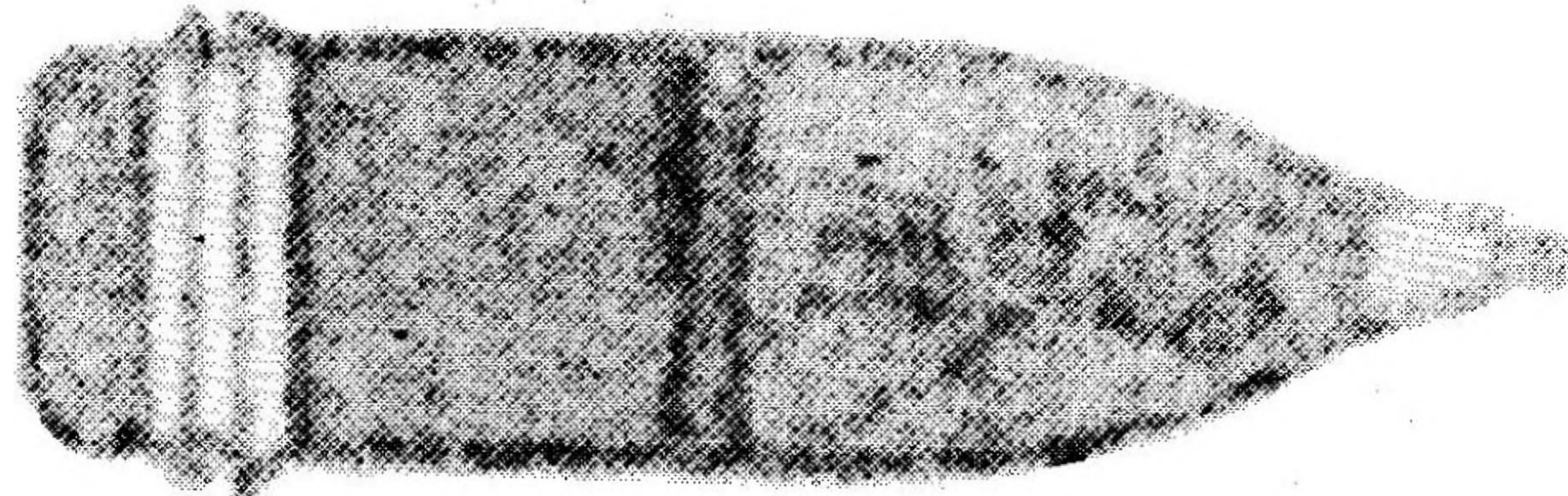
*Projectile Weight:* 38.00 kg

*Weight and Type of Filling:* 2.7 kg

*Fuzing:* Type 92 Specially Reduced

*Guns Used In:* 14 cm 50 cal Gun

*Remarks:* Projectiles with an unfilled base plug or without a bursting charge base plate have (改) stamped into the rotating band. (特減) (vertically) painted on the base.



*Diameter:* 140 mm

*Designation:* Capped Common Projectile, Modif. 1

*Color and Markings:* Rust color, yellow central band

*Projectile Length:*

*Projectile Length With Fuze:* 552.7 mm

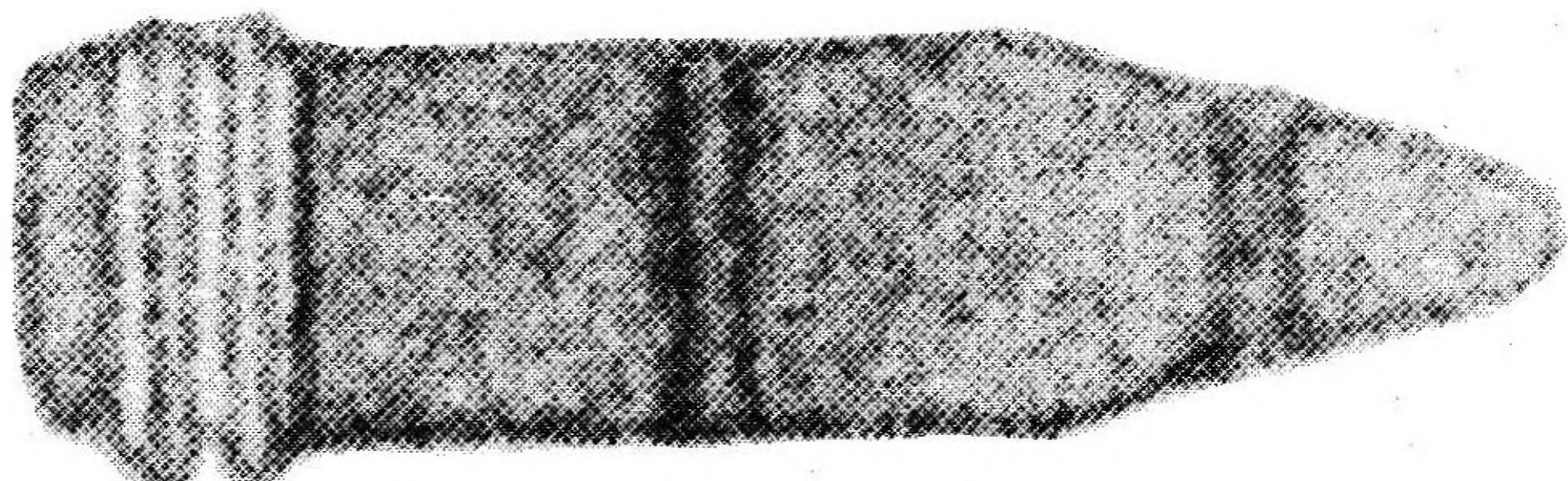
*Projectile Weight:* 38.380 kg

*Weight and Type of Filling:*

*Fuzing:* Type 13 Mk. 1, Modif. 1

*Guns Used In:* 14 cm 50 cal Gun

*Remarks:* (—) is stamped into the rotating band  
Rotating band same as shown for Practice  
projectile for this gun.



*Diameter:* 140 mm

*Designation:* Capped Common Projectile Modif. 2

*Color and Markings:* Rust color, yellow central band

*Projectile Length:*

*Projectile Length With Fuze:* 552.7 mm

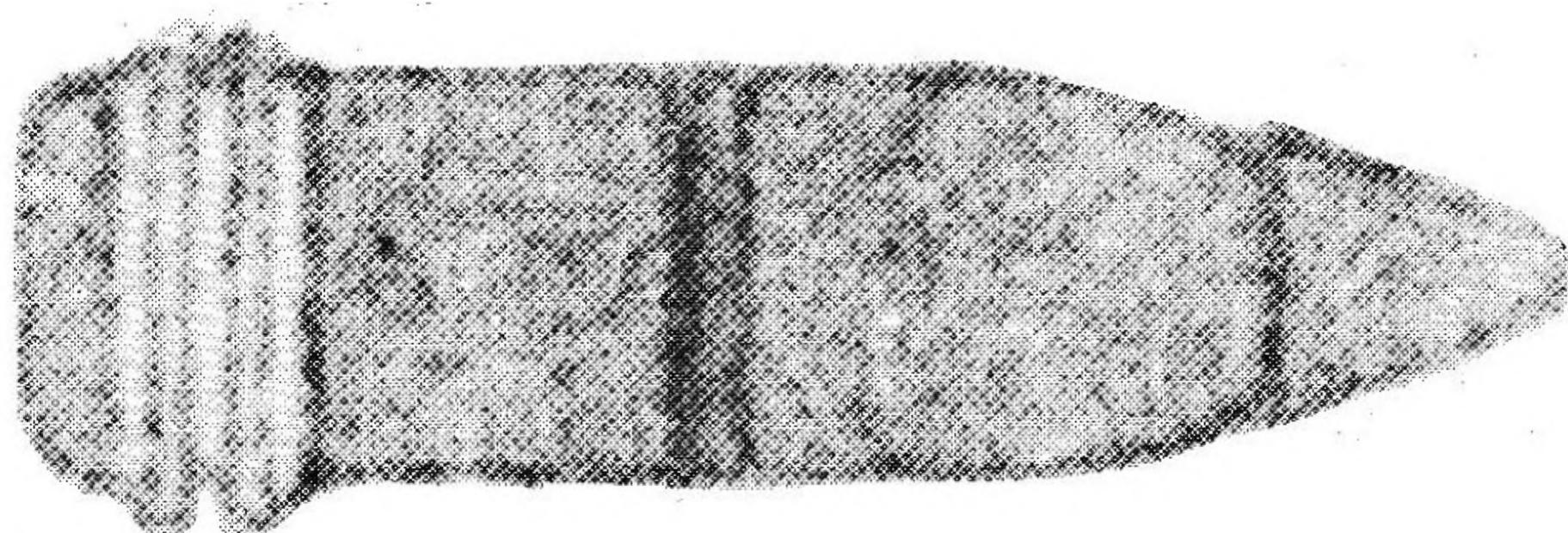
*Projectile Weight:* 38.00 kg

*Weight and Type of Filling:*

*Fuzing:* Type 13 Mk. 1, Modif. 1

*Guns Used In:* 14 cm 50 cal Gun

*Remarks:* ( 改二 ) (vertically) is stamped into the rotating band. Rotating band same as shown for Practice projectile for this gun.



*Diameter:* 140 mm

*Designation:* Mk. 1 Common Projectile

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* Type 13 Mk. 1, Modif. 1

*Guns Used In:* 14 cm Gun

*Remarks:*

*Diameter:* 150 mm

*Designation:* Practice Projectile

*Color and Markings:* Yellow nose, black body, white central band

*Projectile Length:*

*Projectile Length With Fuze:*

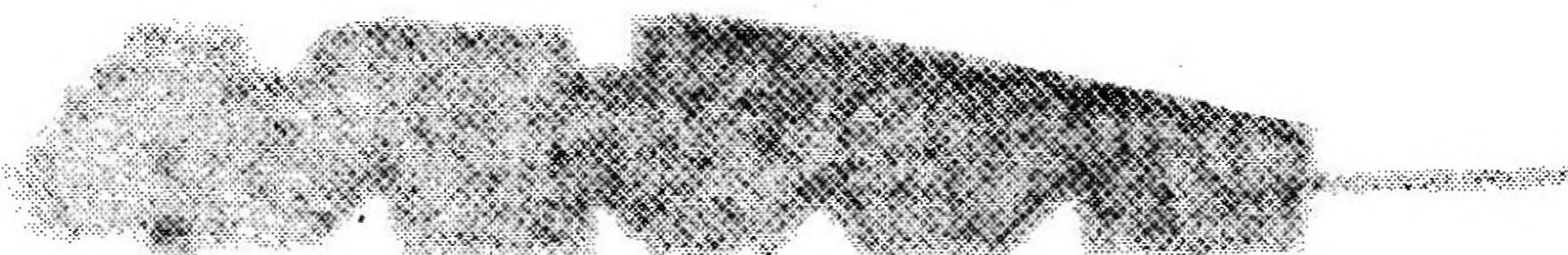
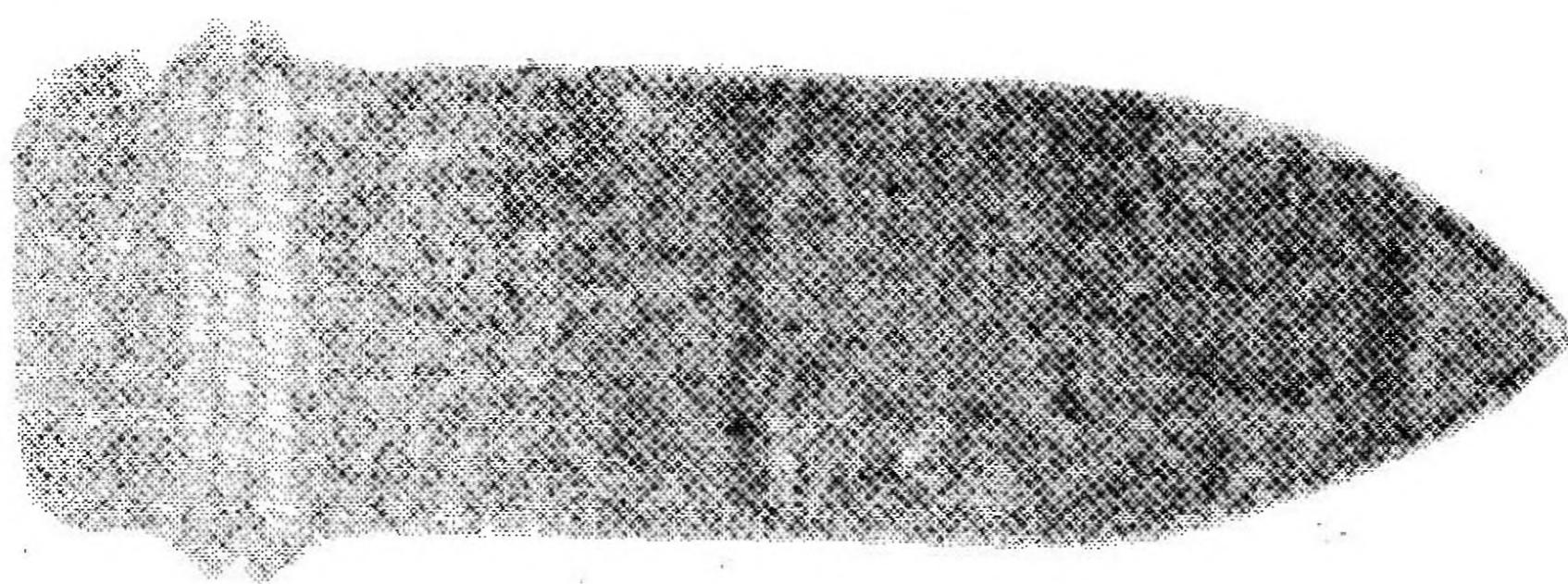
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 15 cm 40 cal Gun (莢)

*Remarks:* The character in the gun designation may mean that fixed or semi-fixed ammunition can be used.



*Diameter:* 150 mm

*Designation:* Practice Projectile

*Color and Markings:* Yellow nose, rust color body, yellow central band

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

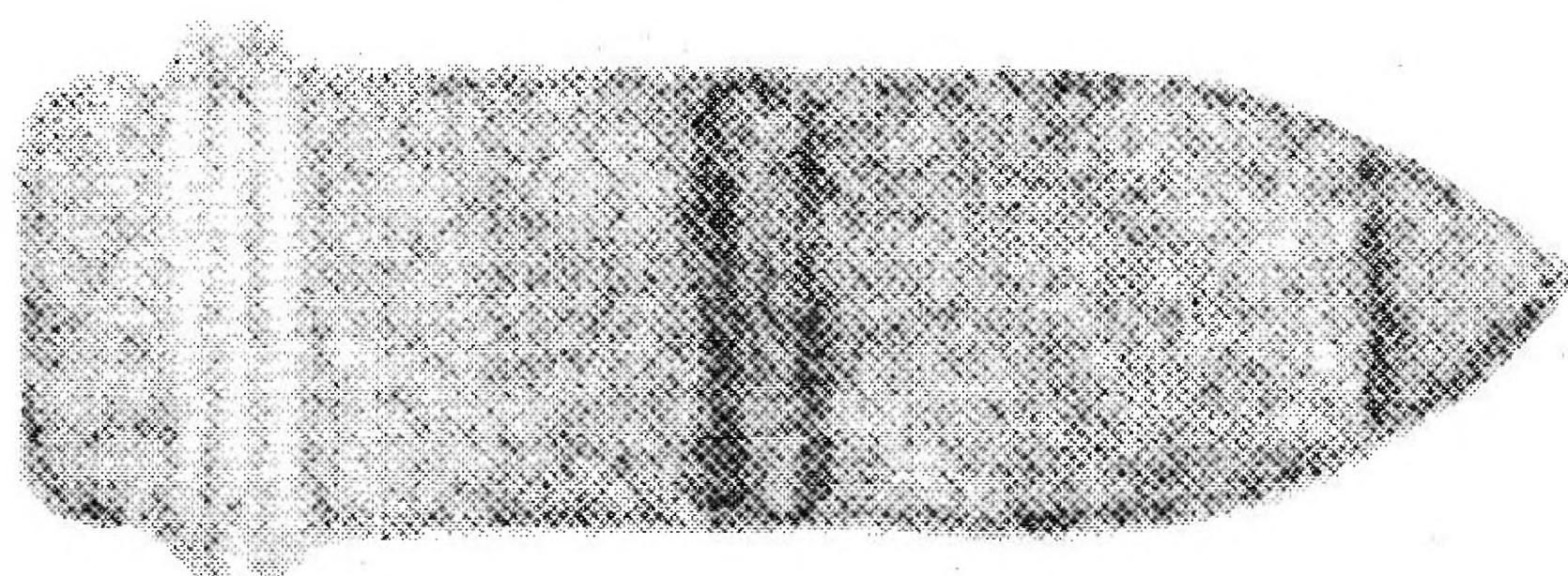
*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 15 cm 40 cal Gun (英)

*Remarks:* Converted from a Common Projectile  
Rotating band same as shown for the Practice  
projectile for this gun.

The character in the gun designation may mean  
that fixed or semi-fixed ammunition can be used.



*Diameter:* 150 mm

*Designation:* Practice Projectile

*Color and Markings:* Yellow nose, black body, white central band

*Projectile Length:*

*Projectile Length With Fuze:*

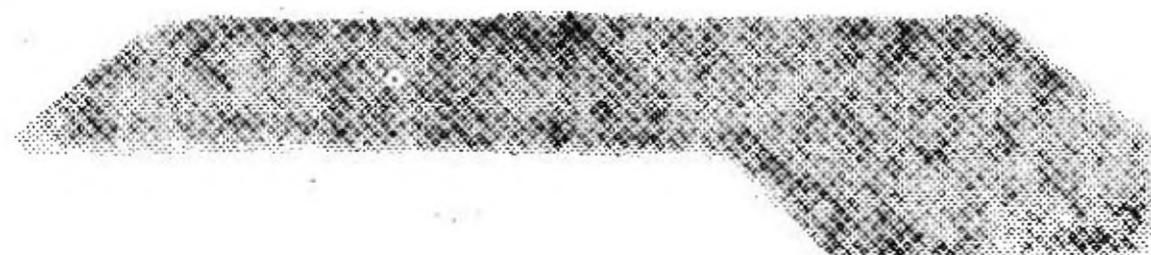
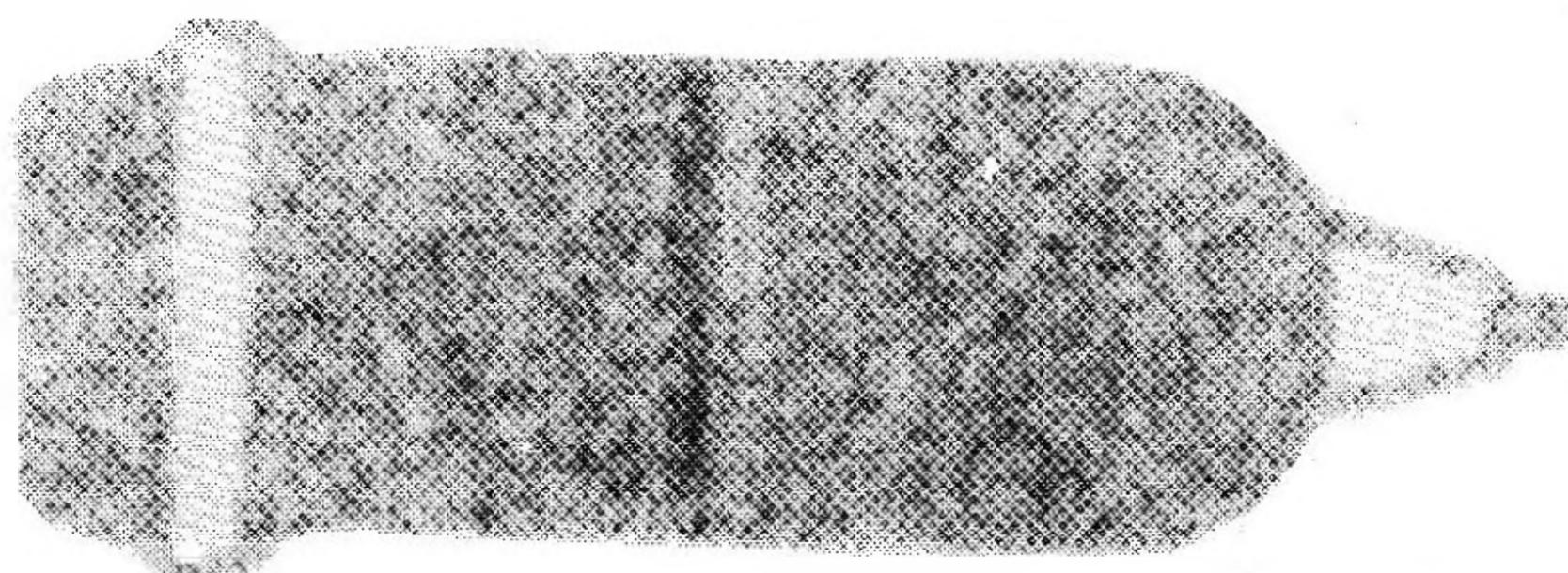
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 15 cm Mortar

*Remarks:*



*Diameter:* 150 mm

*Designation:* Mk. 1 Practice Projectile

*Color and Markings:* Yellow nose, black body, white central band

*Projectile Length:*

*Projectile Length With Fuze:*

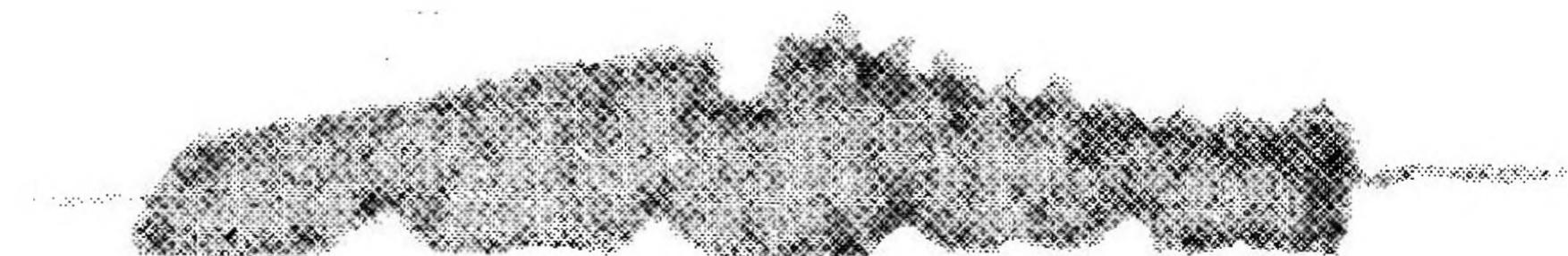
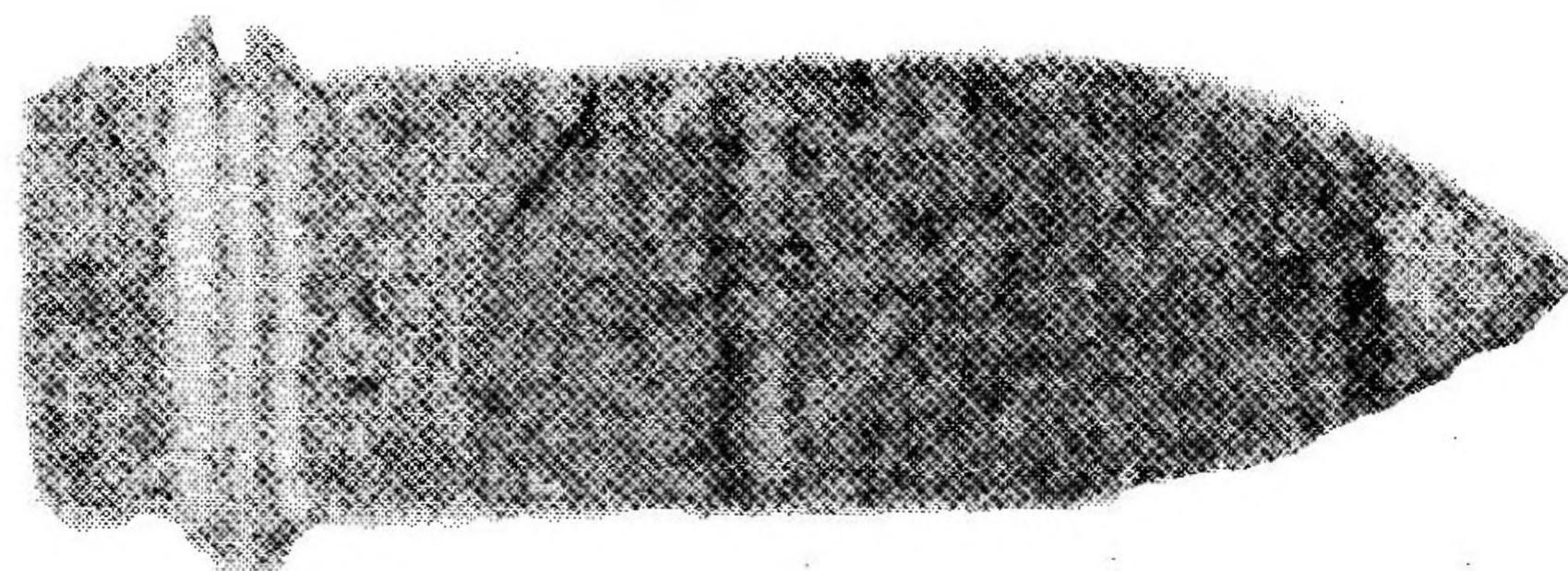
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 15 cm 40-cal Gun  
15 cm 45 cal Gun  
5 cm 50 cal Gun

*Remarks:* Ogive radius of 2 caliber



*Diameter:* 150 mm

*Designation:* Mk. 2 Practice Projectile

*Color and Markings:* Yellow nose, black body, white central band

*Projectile Length:*

*Projectile Length With Fuze:*

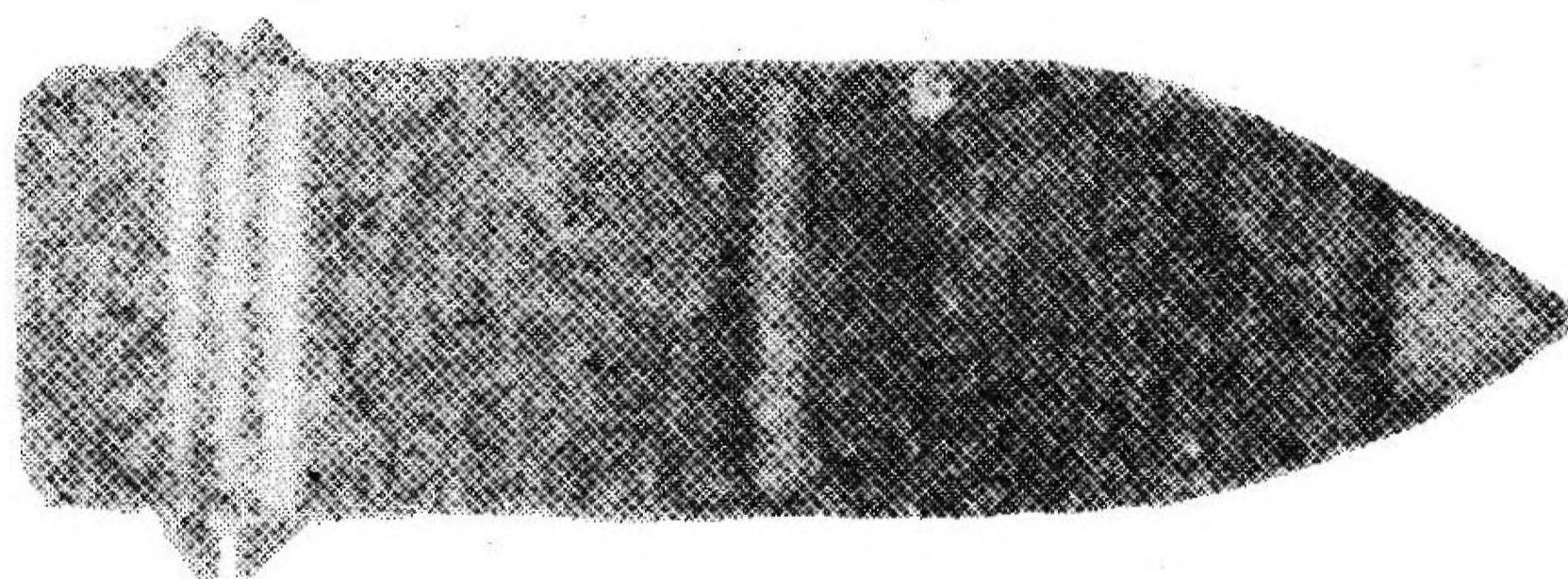
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 15 cm 40 cal Gun  
15 cm 45 cal Gun  
15 cm 50 cal Gun

*Remarks:* Rotating band same as shown for Mk. 1 Practice projectile for these guns.  
Ogive radius of 6 caliber



*Diameter:* 150 mm

*Designation:* Mk. 3 Practice Projectile

*Color and Markings:* Yellow nose, black body, white central band

*Projectile Length:*

*Projectile Length With Fuze:*

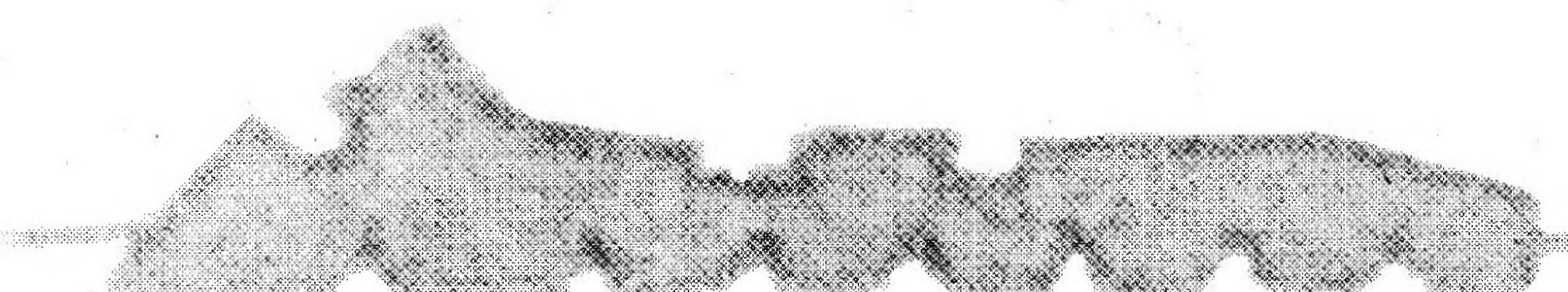
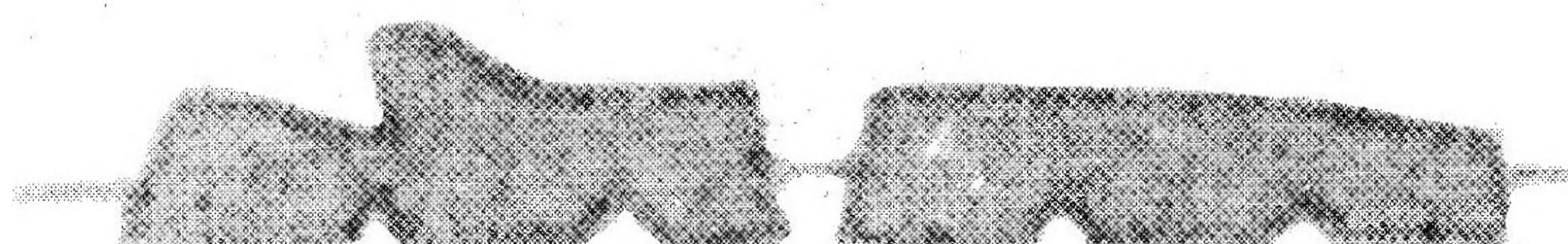
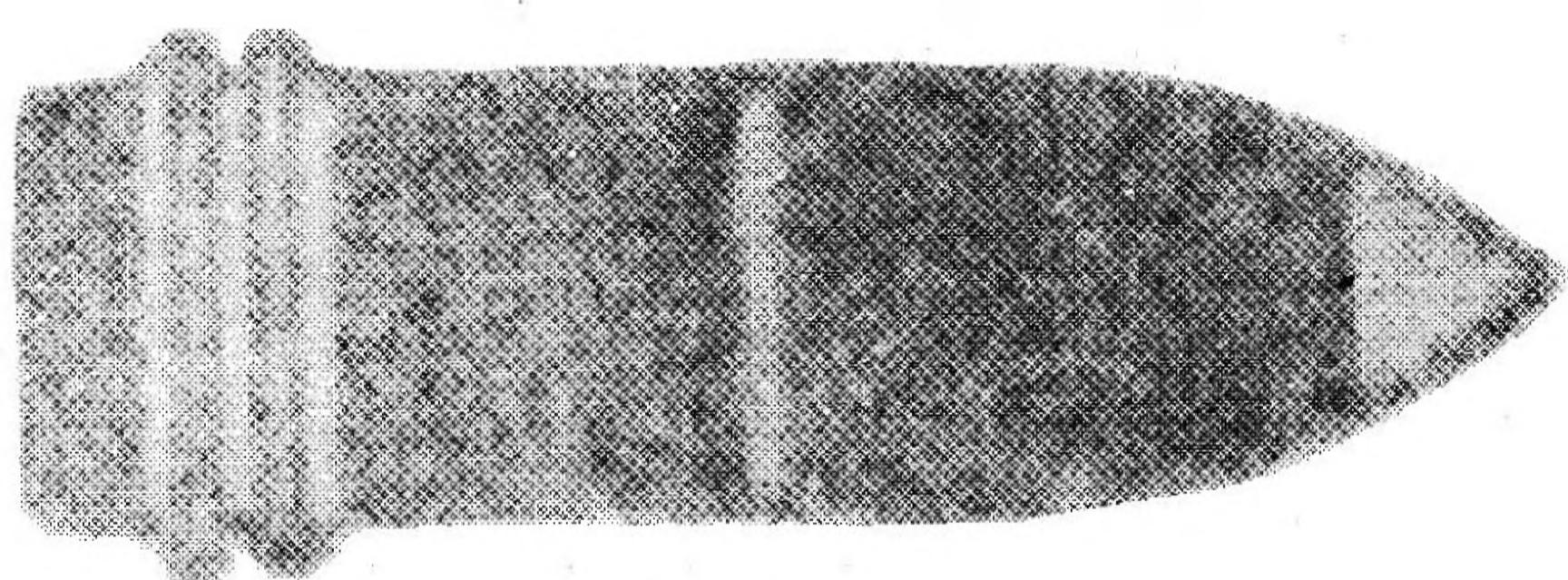
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 15 cm 40 cal Gun  
15 cm 45 cal Gun  
15 cm 50 cal Gun

*Remarks:*



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30 APRIL 1945.

Diameter: 150 mm

Designation: Mk. 3 Practice Projectile

Color and Markings: Yellow nose, rust color body, yellow central band

Projectile Length:

Projectile Length With Fuze:

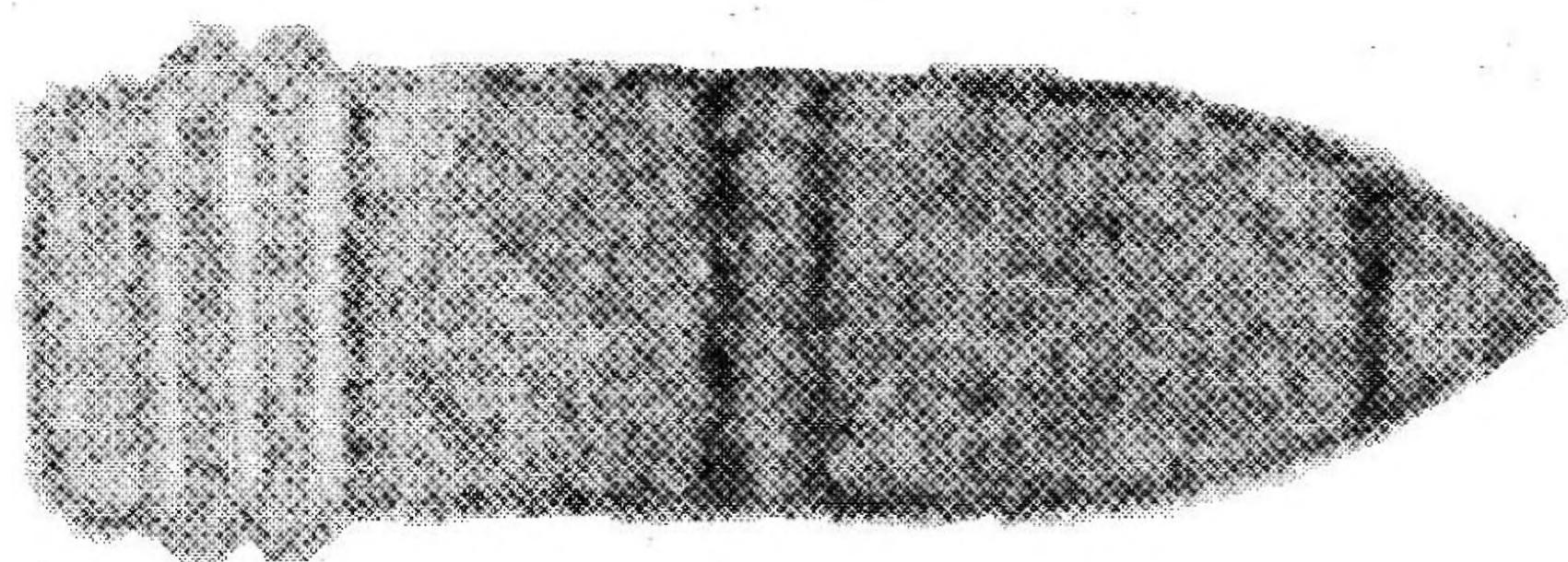
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 15 cm 40 cal Gun  
15 cm 45 cal Gun  
15 cm 50 cal Gun

Remarks: Converted from Mk. 3 Common projectile  
Rotating bands same as shown for Mk. 3 Practice projectile for these guns.



*Diameter:* 150 mm

*Designation:* Mk. 4 Practice Projectile

*Color and Markings:* Yellow nose, black body, white central band

*Projectile Length:*

*Projectile Length With Fuze:*

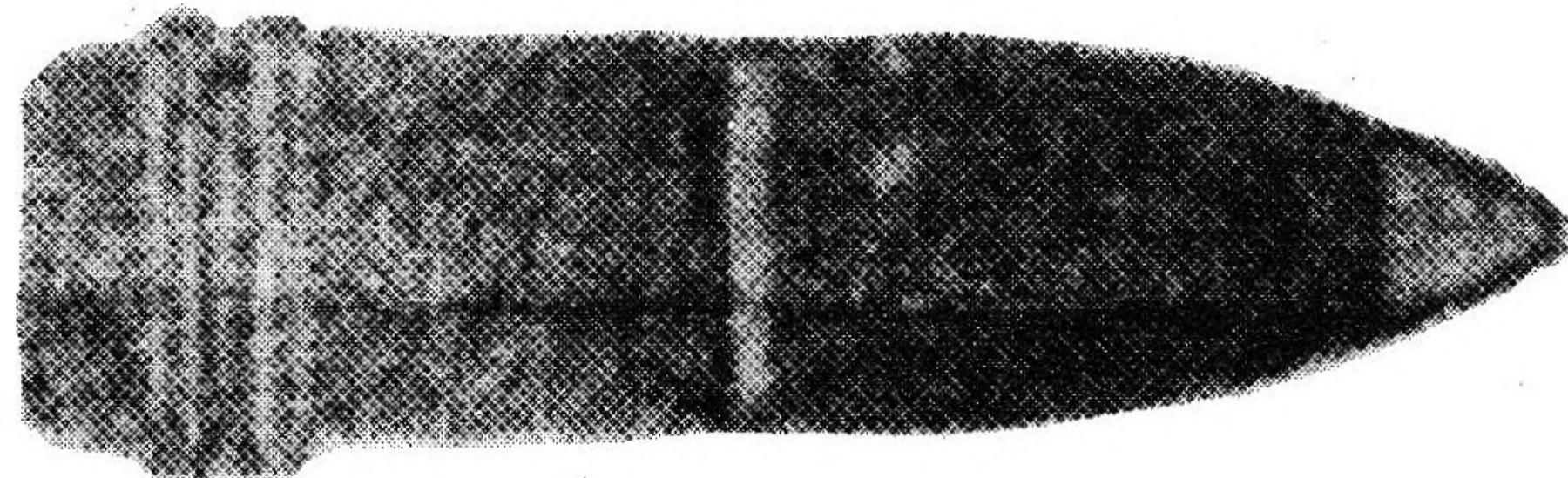
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 15 cm 40 cal Gun  
15 cm 45 cal Gun  
15 cm 50 cal Gun

*Remarks:*



*Diameter:* 150 mm

*Designation:* Star Projectile

*Color and Markings:* Blue body, yellow central band

*Projectile Length:*

*Projectile Length With Fuze:*

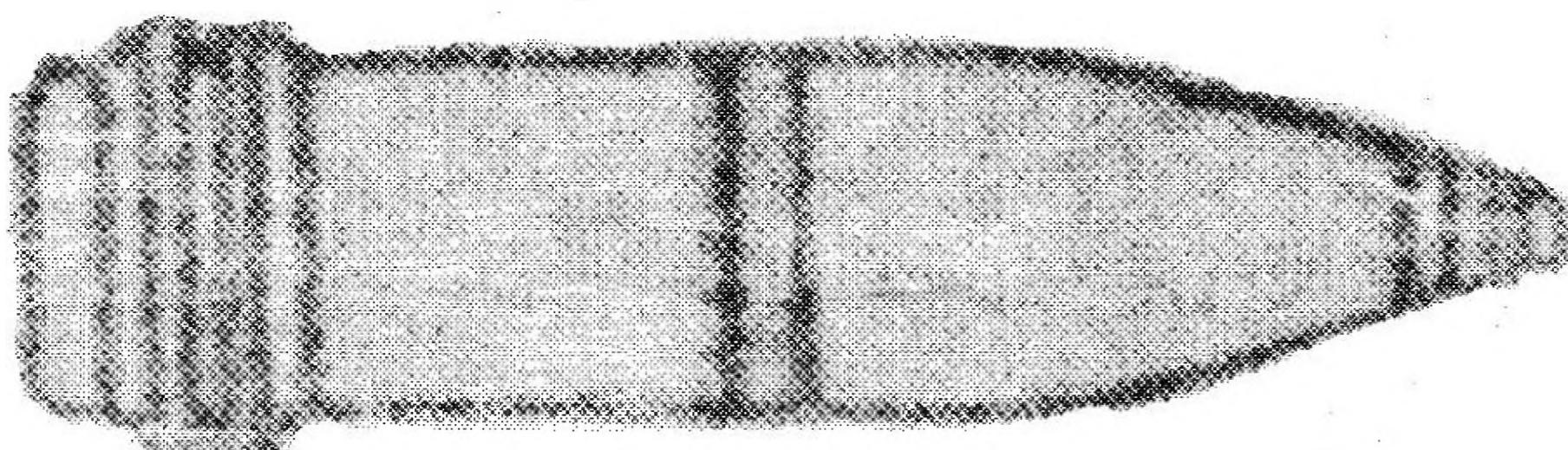
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 15 cm 40 cal Gun  
15 cm 45 cal Gun  
15 cm 50 cal Gun

*Remarks:*



*Diameter:* 150 mm

*Designation:* Common Projectile

*Color and Markings:* Rust color, yellow central band

*Projectile Length:*

*Projectile Length With Fuze:*

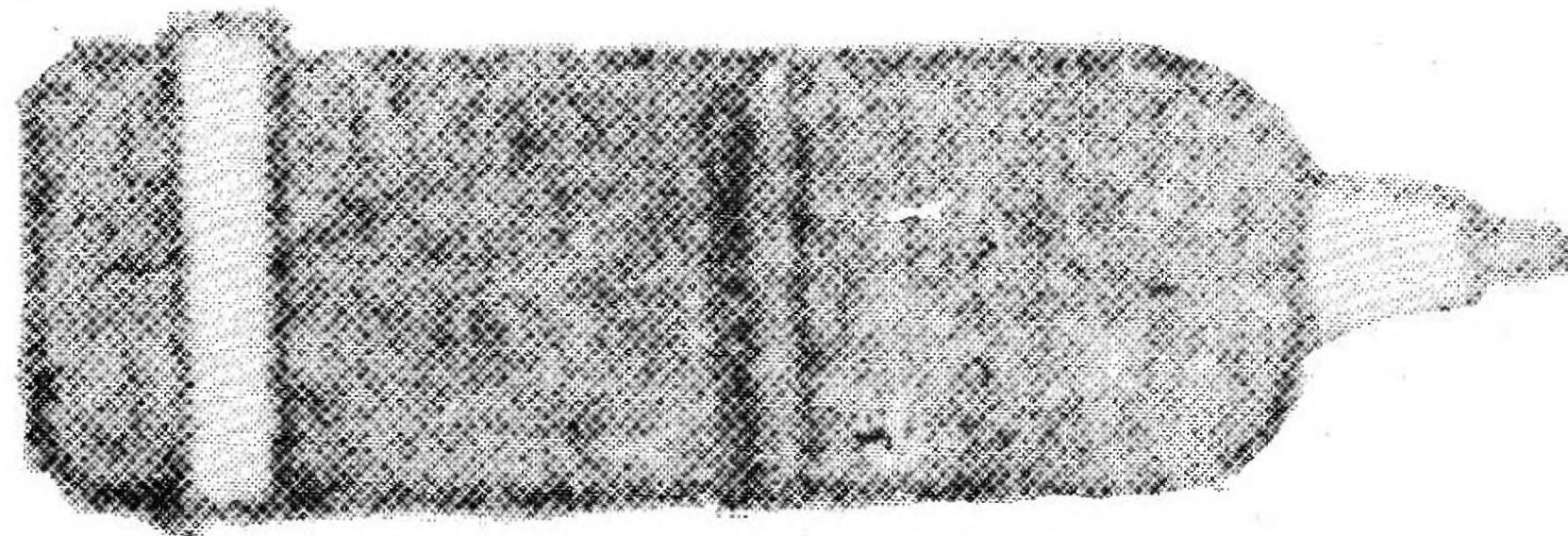
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 15 cm Mortar

*Remarks:* Rotating band same as shown for Practice projectile for this mortar



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30 APRIL 1945.

Diameter: 150 mm

Designation: Common Projectile, Modif. 1

Color and Markings: Rust color, yellow central band

Projectile Length:

Projectile Length With Fuze:

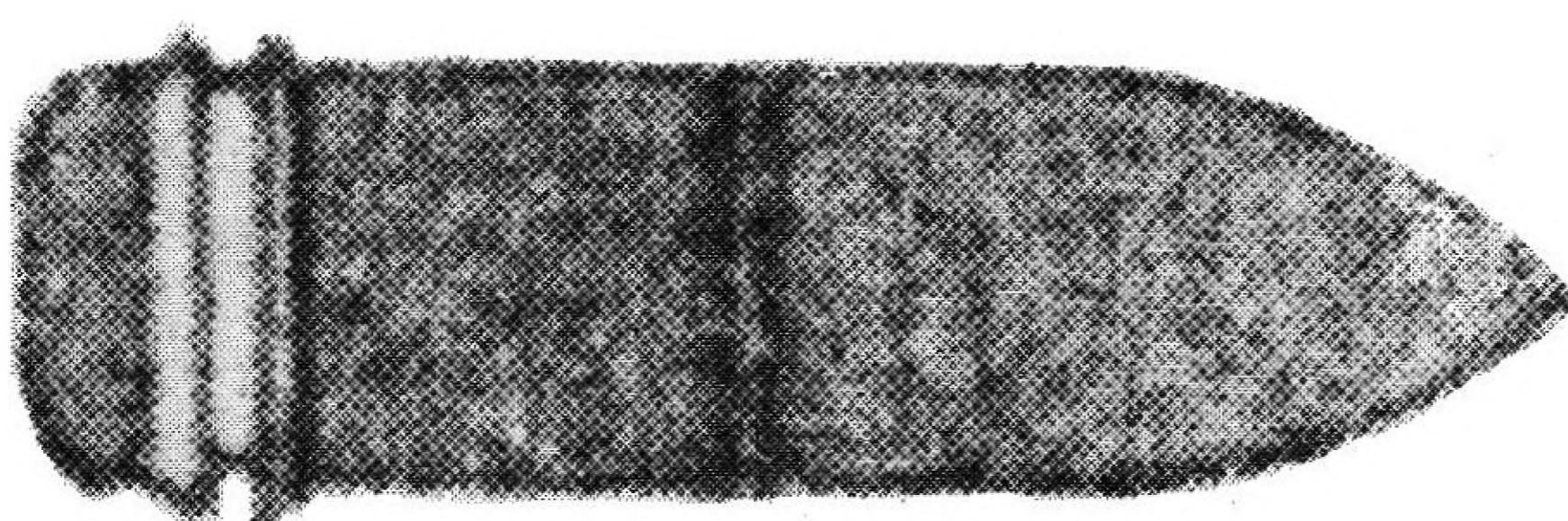
Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 13 Mk. 1, Modif. 1

Guns Used In: 15 cm 40 cal Gun (英)

Remarks: Θ is stamped into the rotating band. Rotating band same as shown for Practice projectile for this gun. The character in the gun designation may mean that fixed or semi-fixed ammunition can be used.



*Diameter:* 150 mm

*Designation:* Common Projectile, Modif. 2

*Color and Markings:* Rust color, yellow central band

*Projectile Length:*

*Projectile Length With Fuze:*

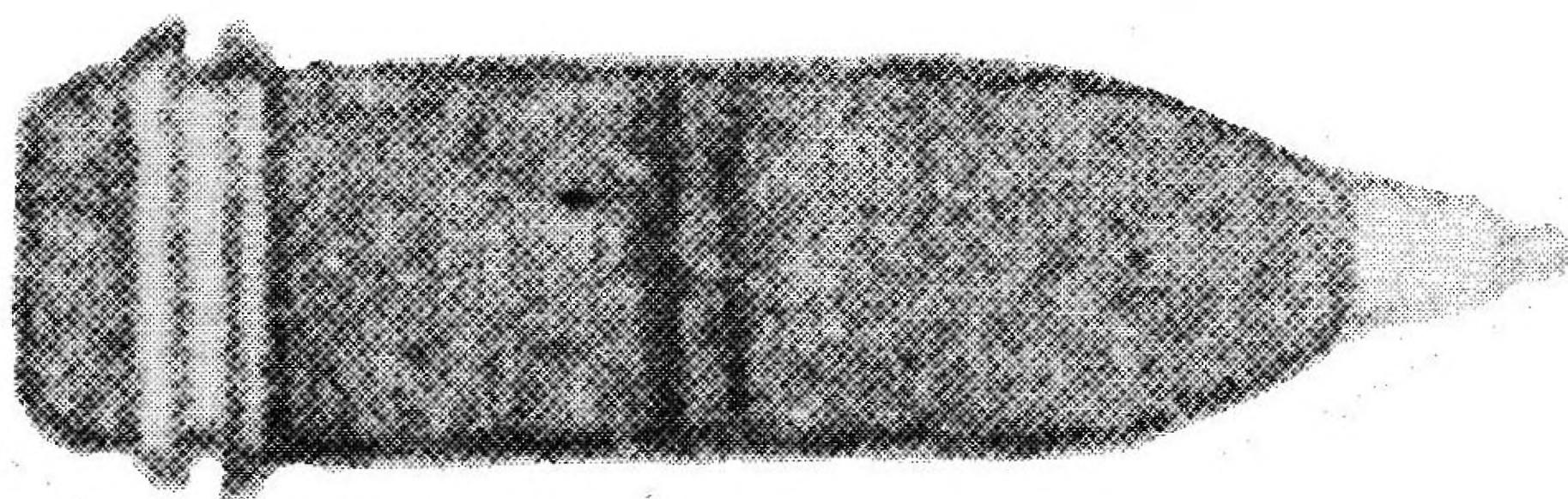
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 15 cm 40 cal Gun (蒸)

*Remarks:* (改二) (vertically) is stamped into the rotating band. Rotating band same as shown for Practice projectile for this gun. The character in the gun designation may mean that fixed or semi-fixed ammunition can be used.



*Diameter:* 150 mm

*Designation:* Mk. 1 Common Projectile

*Color and Markings:* Rust color, yellow central band

*Projectile Length:*

*Projectile Length With Fuze:*

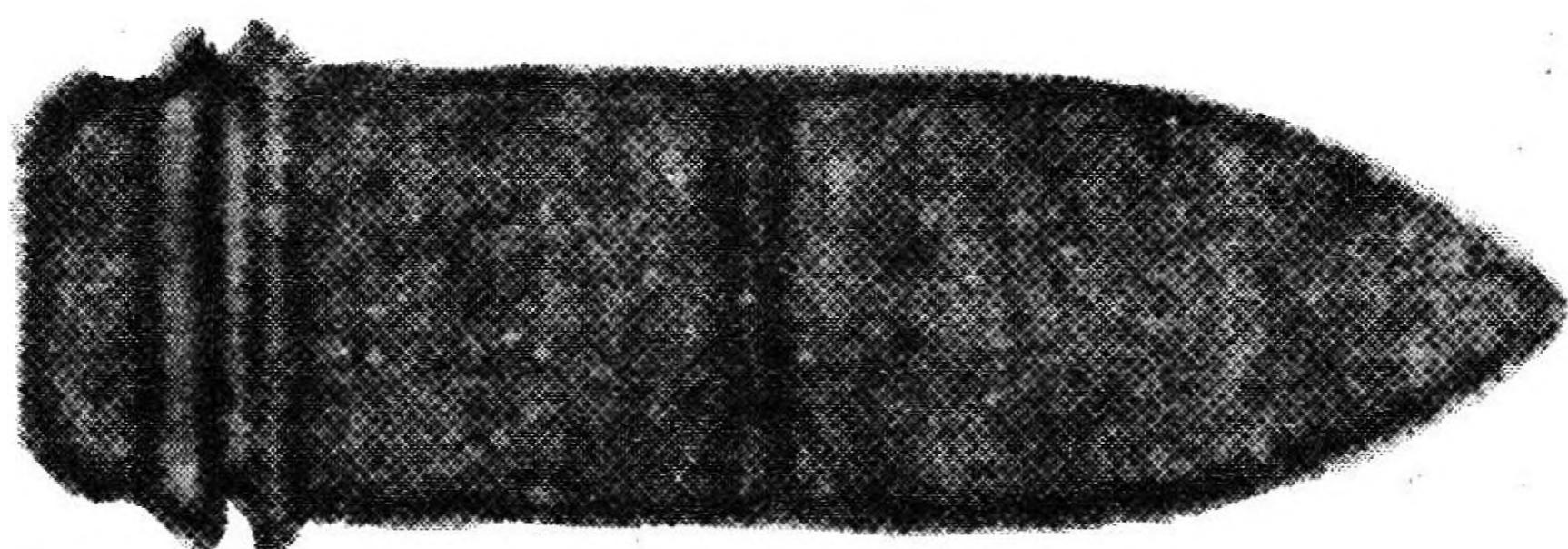
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 15 cm 40 cal Gun  
15 cm 45 cal Gun  
15 cm 50 cal Gun

*Remarks.* Rotating band same as shown for Mk. 1 Practice  
projectile for these guns  
Ogive radius of 2 caliber



*Diameter:* 150 mm

*Designation:* Mk. 2 Common Projectile, Modif. 1

*Color and Markings:* Rust color, yellow central band

*Projectile Length:*

*Projectile Length With Fuze:*

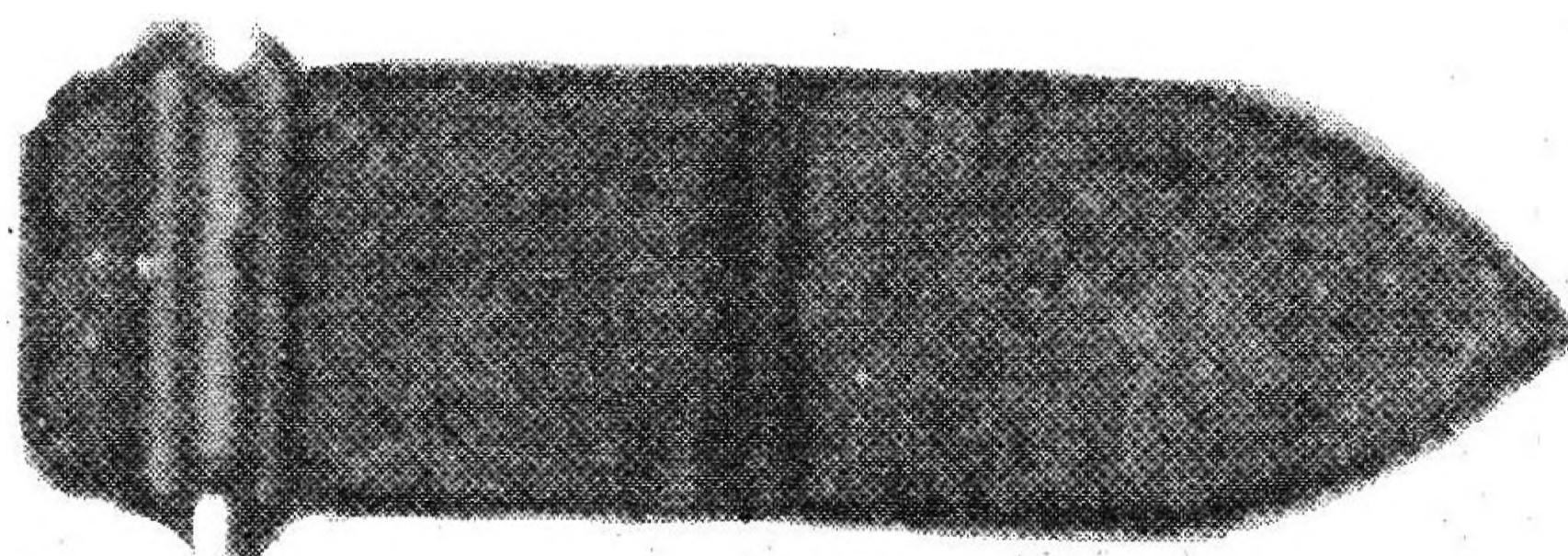
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 15 cm 40 cal Gun  
15 cm 45 cal Gun  
15 cm 50 cal Gun

*Remarks:*  $\ominus$  is stamped into the rotating band.  
Rotating band same as shown for Mk. 1 Practice  
projectile for these guns.  
Ogive radius of 6 caliber.



*Diameter:* 150 mm

*Designation:* Mk. 2 Common Projectile, Modif. 2

*Color and Markings:* Rust color, yellow central band

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

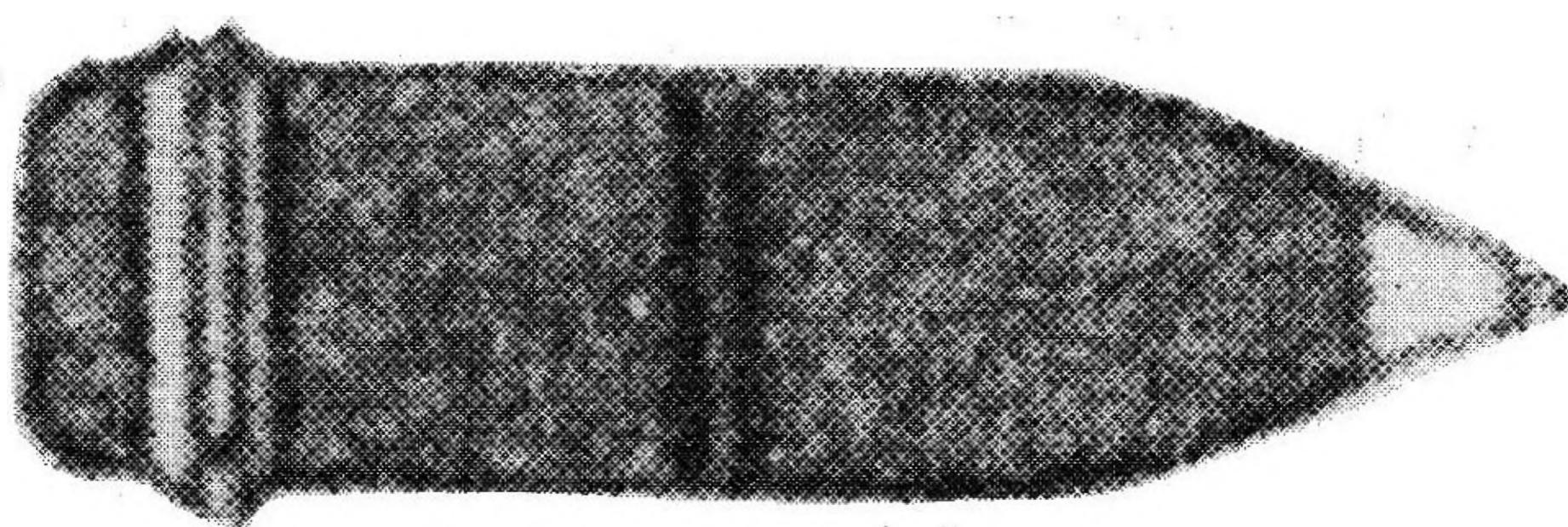
*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 15 cm 40 cal Gun  
15 cm 45 cal Gun  
15 cm 50 cal Gun

*Remarks:* (改二) (vertically) is stamped into the rotating band.

Rotating band same as shown for Mk. 1 Practice projectile for these guns. Ogive radius of .6 caliber.



*Diameter:* 150 mm

*Designation:* Mk. 3 Common Projectile, Modif. 1

*Color and Markings:* Rust color, yellow central band

*Projectile Length:*

*Projectile Length With Fuze:*

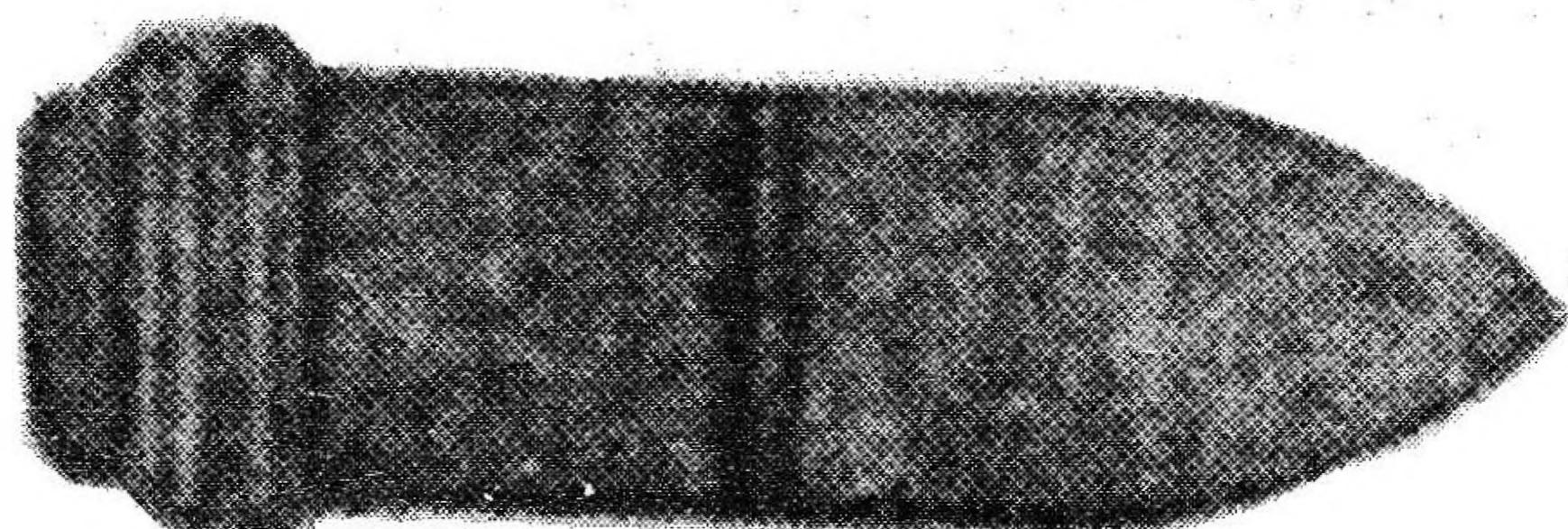
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* Type 13 Mk. 1, Modif. 1

*Guns Used In:* 15 cm 40 cal Gun  
15 cm 45 cal Gun  
15 cm 50 cal Gun

*Remarks:* Θ is stamped into the rotating band  
Rotating bands same as shown for Mk. 3 Practice  
projectile for these guns.



*Diameter:* 150 mm

*Designation:* Mk. 4 Common Projectile

*Color and Markings:* Rust color, yellow central band

*Projectile Length:*

*Projectile Length With Fuze:*

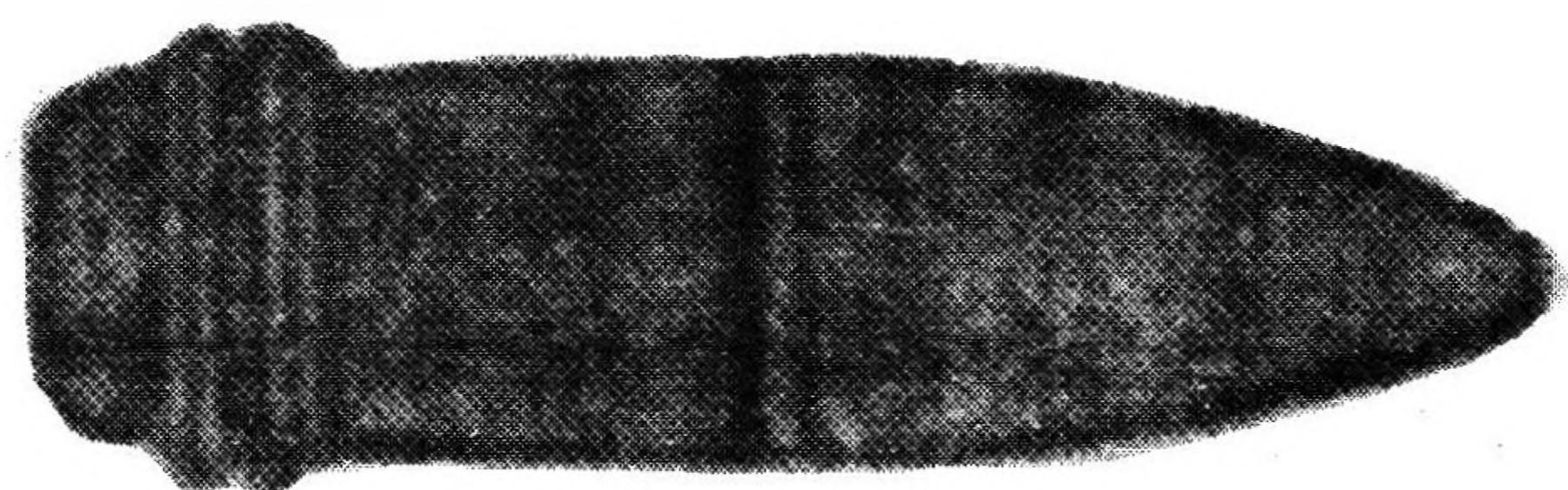
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 15 cm 40 cal Gun  
15 cm 45 cal Gun  
15 cm 50 cal Gun

*Remarks:*



*Diameter:* 155 mm

*Designation:* Type 91 Practice Projectile

*Color and Markings:* Yellow nose, black body, white central line, (九一) (vertically) on the ogive in white.

*Projectile Length:*

*Projectile Length With Fuze:*

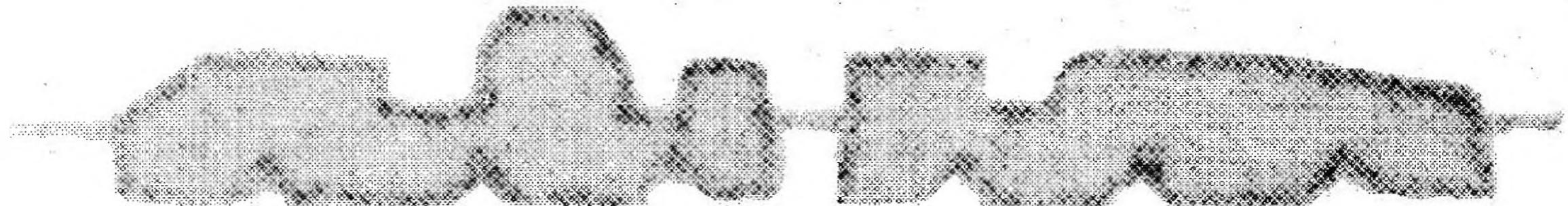
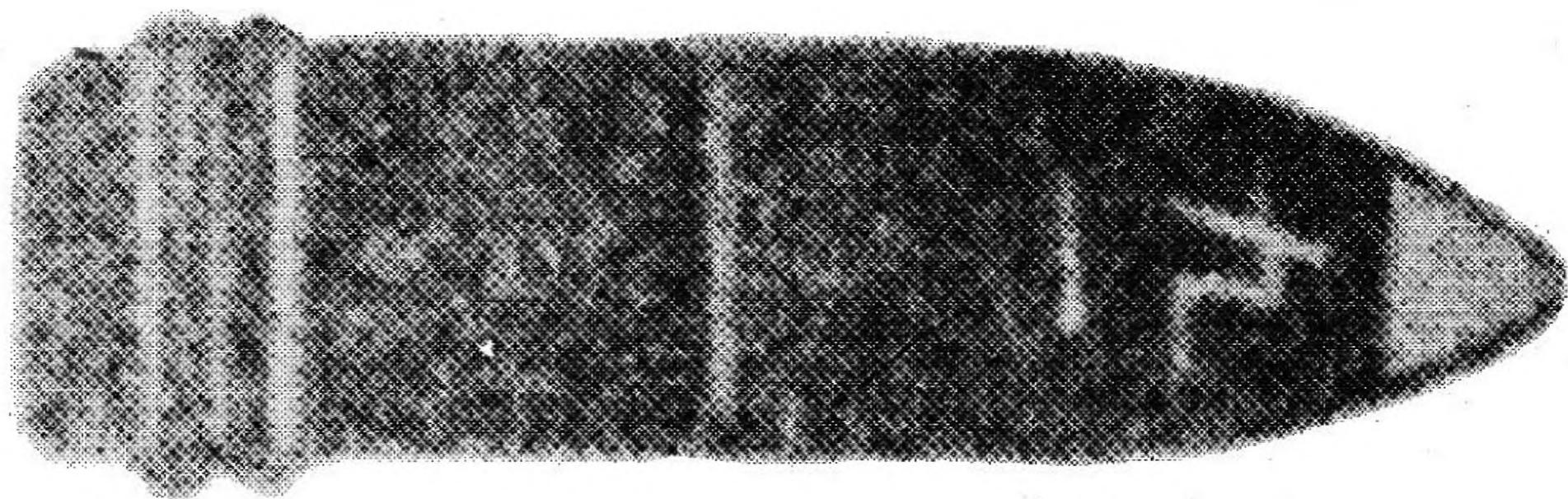
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 15.5 cm Gun

*Remarks:*



Diameter: 155 mm

Designation: Type 91 AP Projectile

Color and Markings: White body, red central band, (九一) (vertically) in black on the ogive.

Projectile Length:

Projectile Length With Fuze:

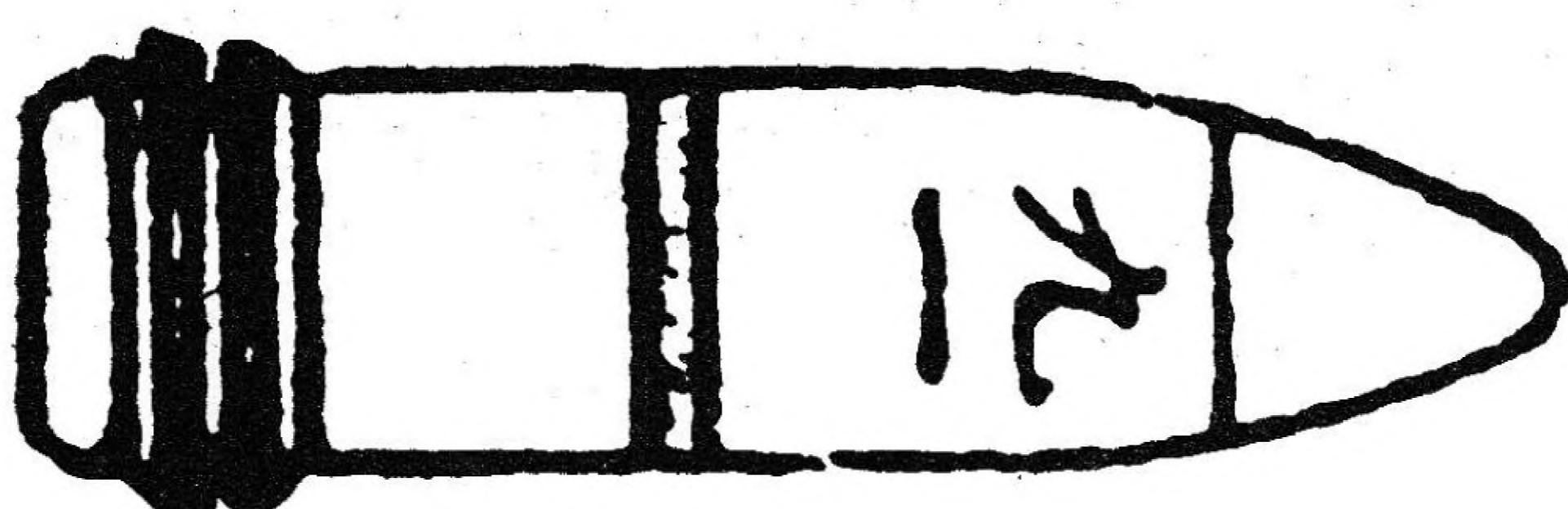
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 15.5 cm Gun

Remarks: Rotating band same as shown for Type 91 Practice projectile for this gun.



*Diameter:* 200 mm

*Designation:* Practice Projectile

*Color and Markings:* Yellow nose, white body, two red central bands

*Projectile Length:*

*Projectile Length With Fuze:*

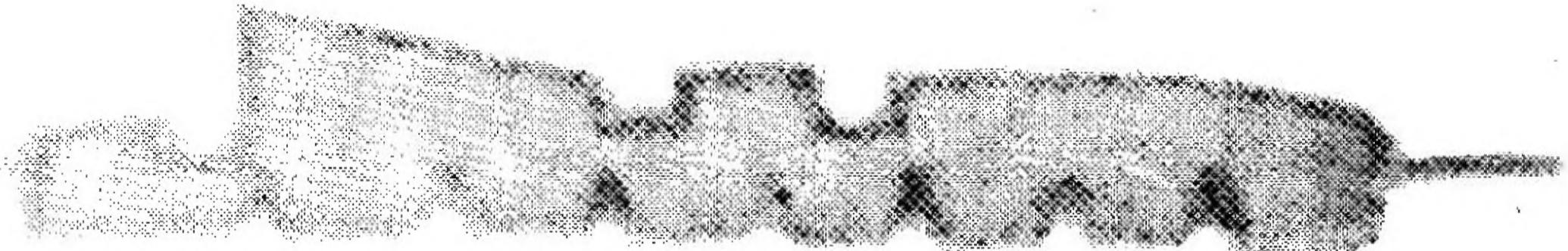
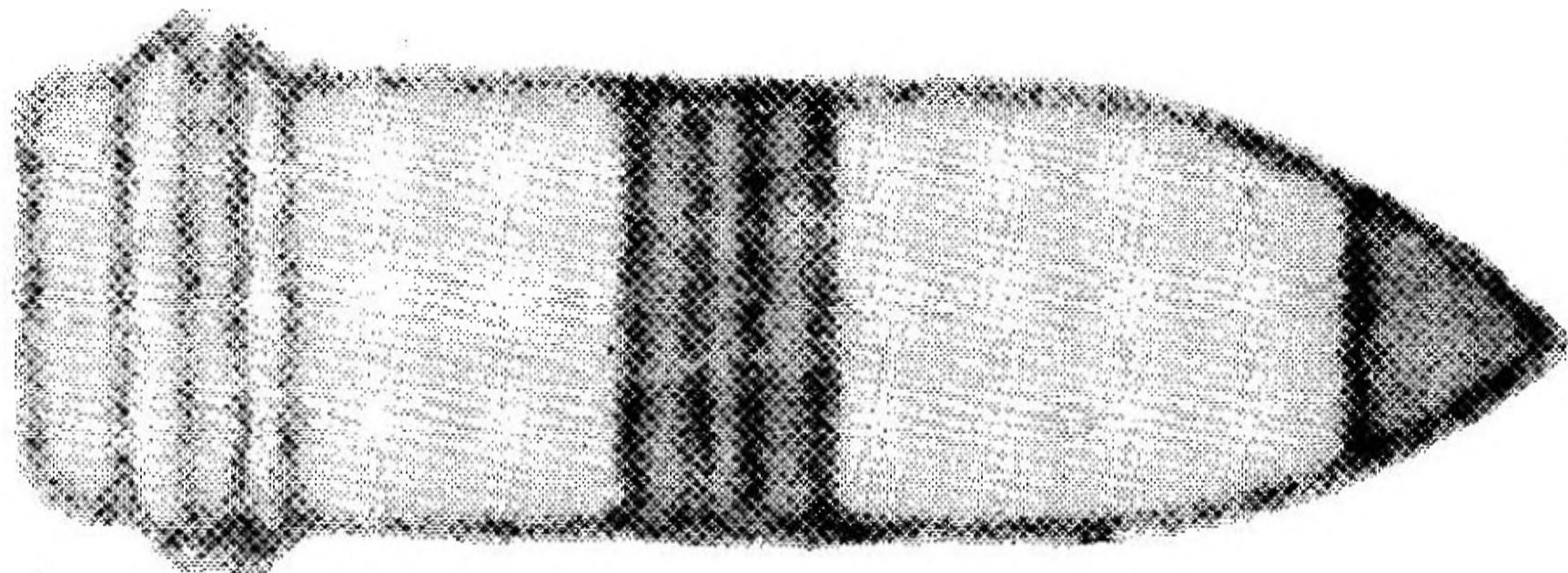
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 20 cm 45 cal Gun

*Remarks:* Converted from Mk. 2 AP Projectile



*Diameter:* 200 mm

*Designation:* Practice Projectile

*Color and Markings:* Yellow nose, black body, white central band

*Projectile Length:*

*Projectile Length With Fuze:*

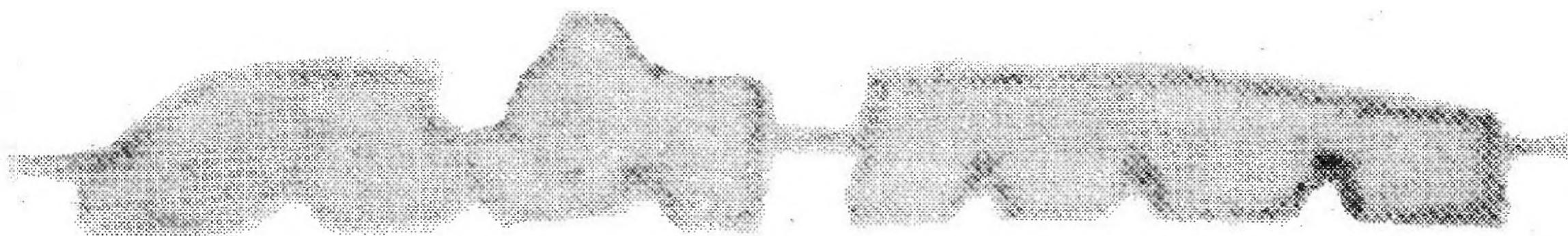
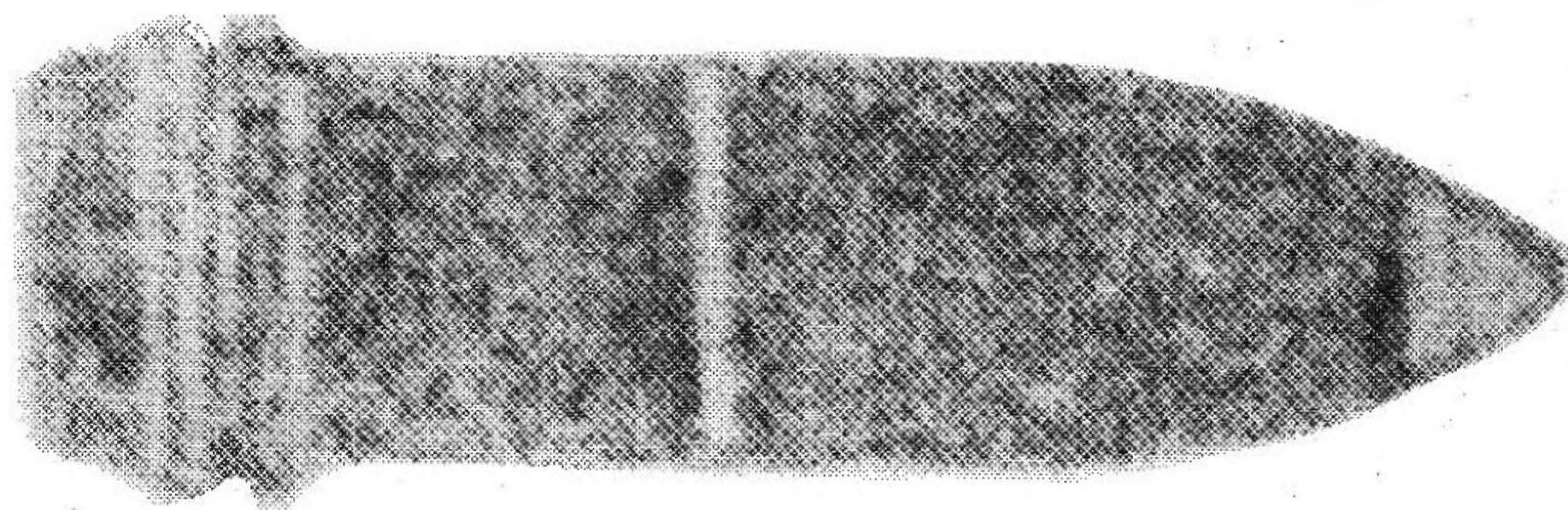
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 20 cm 50 cal Gun

*Remarks:*



*Diameter:* 200 mm

*Designation:* Type 91 Practice Projectile

*Color and Markings:* (九一) (vertically) on ogive in white, yellow nose, black body, white central band.

*Projectile Length:*

*Projectile Length With Fuze:*

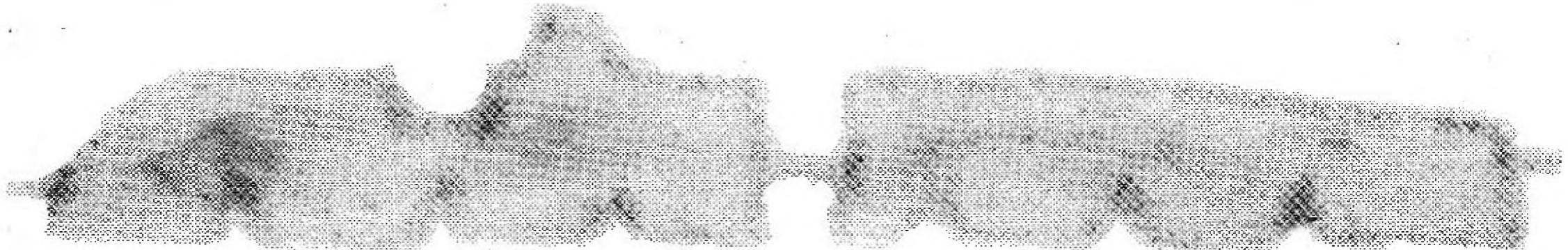
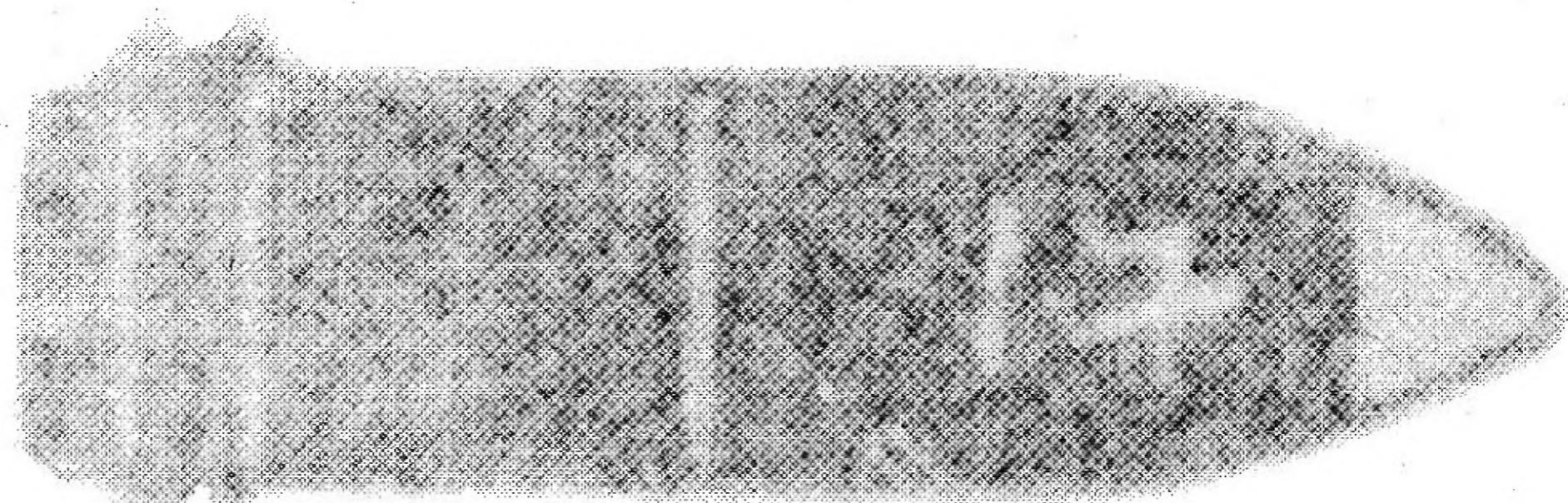
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* Mk. 2 20 cm Gun

*Remarks:*



*Diameter:* 200 mm

*Designation:* Time Practice Projectile

*Color and Markings:* Yellow nose, black body, white central band, two rows of white dots on ogive.

*Projectile Length:*

*Projectile Length With Fuze:*

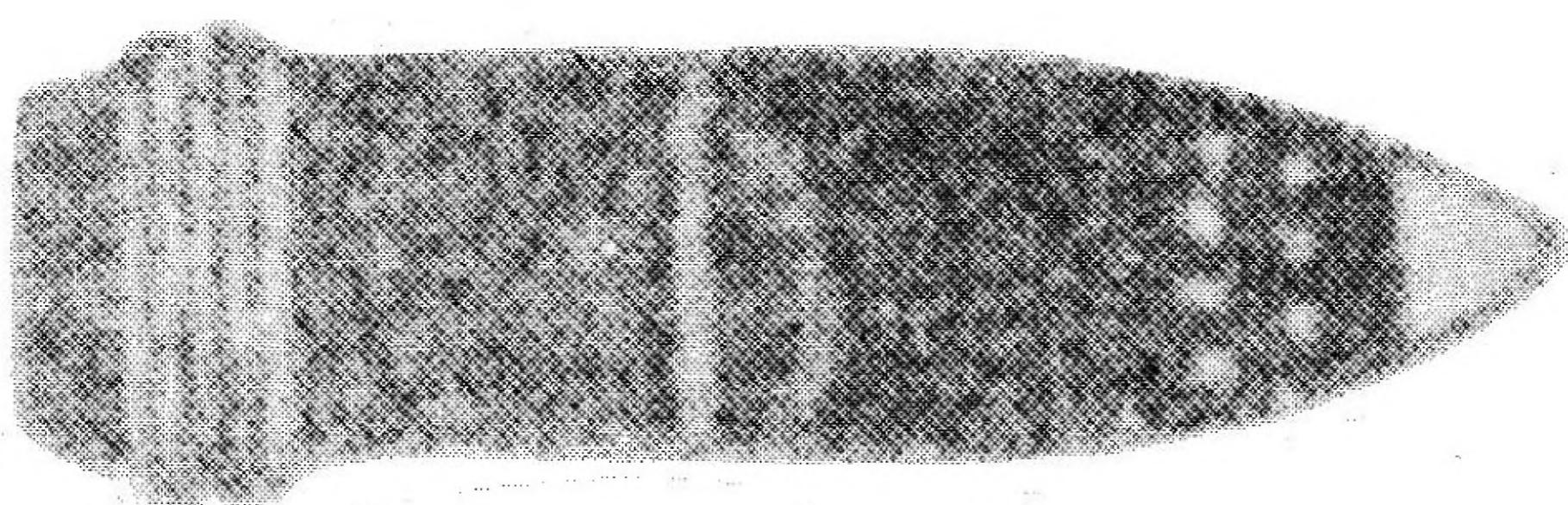
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 20 cm 50 cal Gun

*Remarks:* Rotating band same as shown for Practice projectile for this gun.



*Diameter:* 200 mm

*Designation:* Time Practice Projectile

*Color and Markings:* Yellow nose, black body, white central band, (九一) (vertically) in white on ogive, two rows of white dots on ogive.

*Projectile Length:*

*Projectile Length With Fuze:*

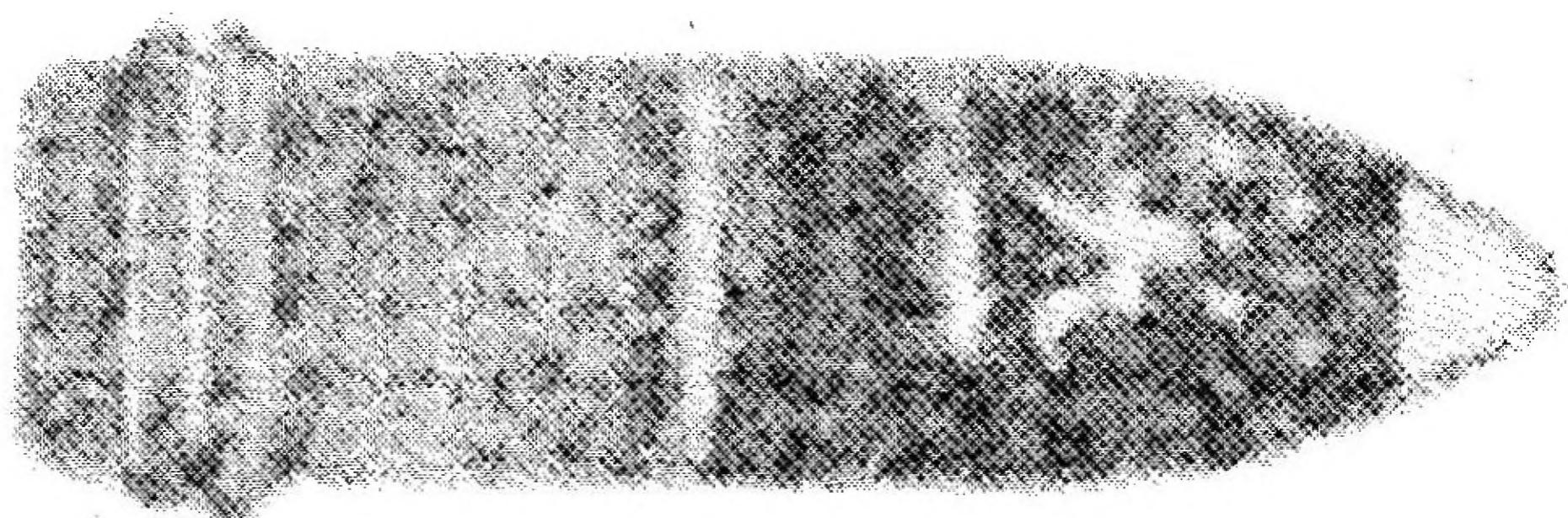
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* Mk. 2 20 cm 50 cal Gun

*Remarks:* Rotating band same as shown for Type 91 Practice projectile for this gun.



*Diameter:* 200 mm

*Designation:* 20 cm Short Incendiary Projectile

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

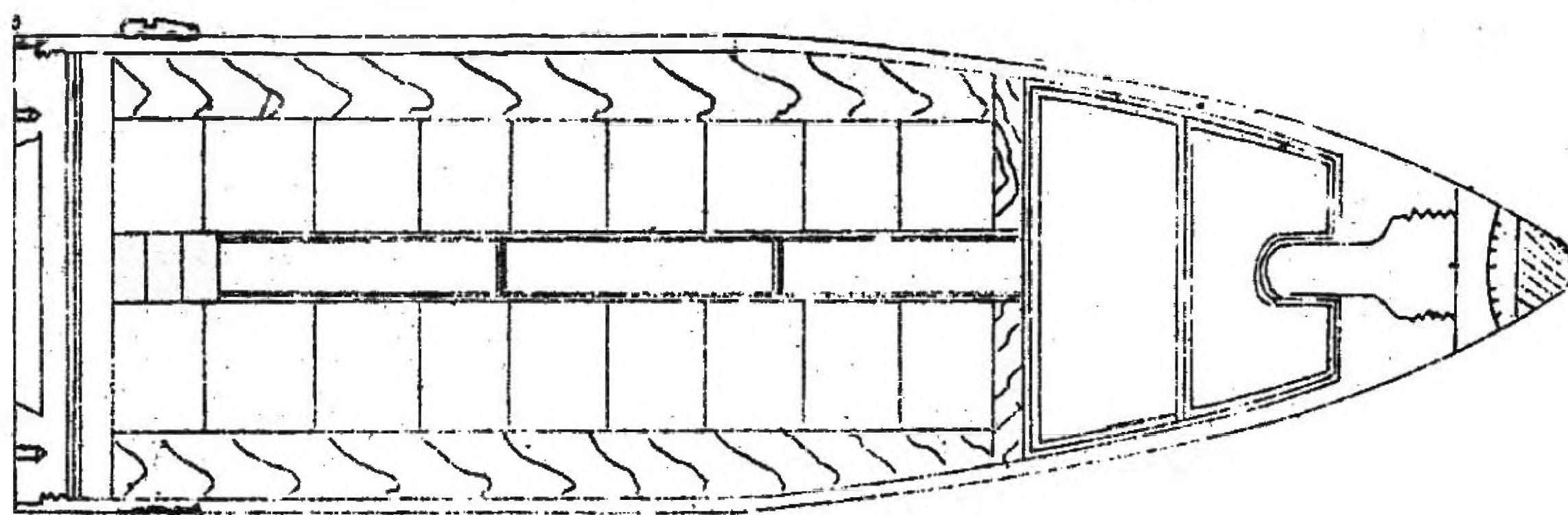
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* Type 0 Time. Type 91 Auxiliary

*Guns Used In:* 20 cm Short Gun

*Remarks:* Used for AA firing.



*Diameter:* 200 mm

*Designation:* Star Projectile B

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* Type 0

*Guns Used In:* Mk. 2 20 cm Gun

*Remarks:*

*Diameter:* 200 mm

*Designation:* AP Projectile, Modif. 1

*Color and Markings:* White body, red central band

*Projectile Length:*

*Projectile Length With Fuze:*

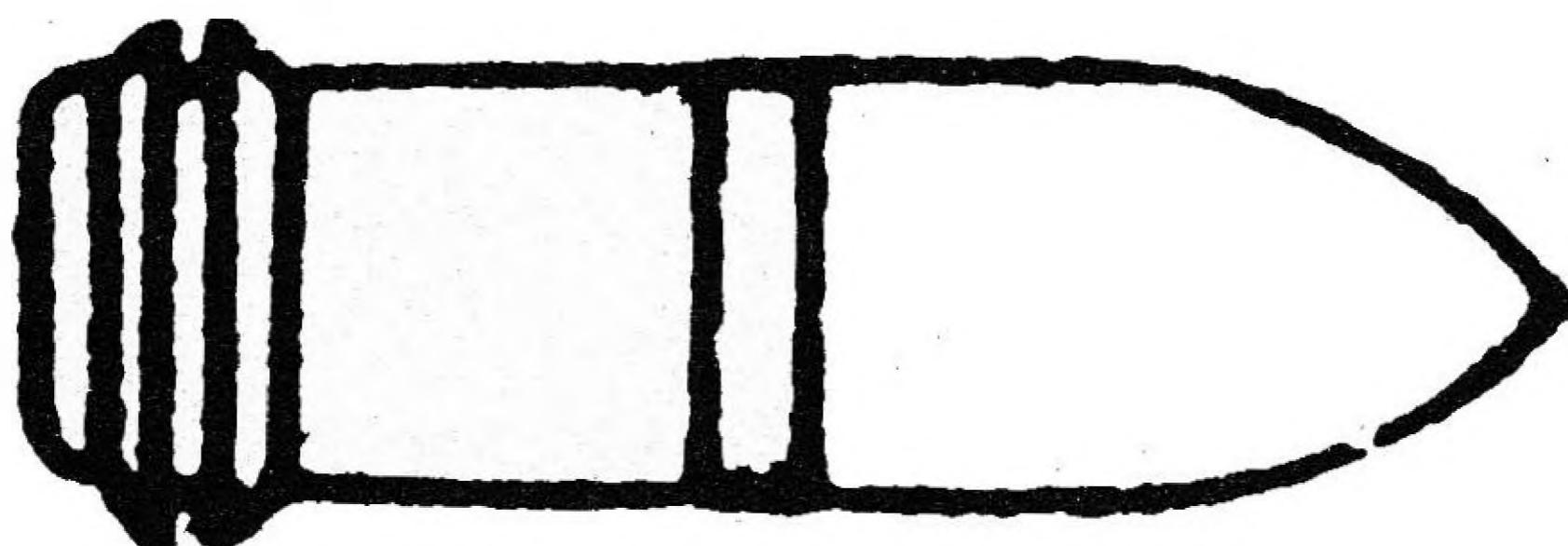
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 20 cm 45 cal Gun

*Remarks:*  $\ominus$  is stamped into the rotating band.  
Rotating band same as shown for Practice  
projectile for this gun.



*Diameter:* 200 mm

*Designation:* Capped AP Projectile

*Color and Markings:* White body, red central band

*Projectile Length:*

*Projectile Length With Fuze:*

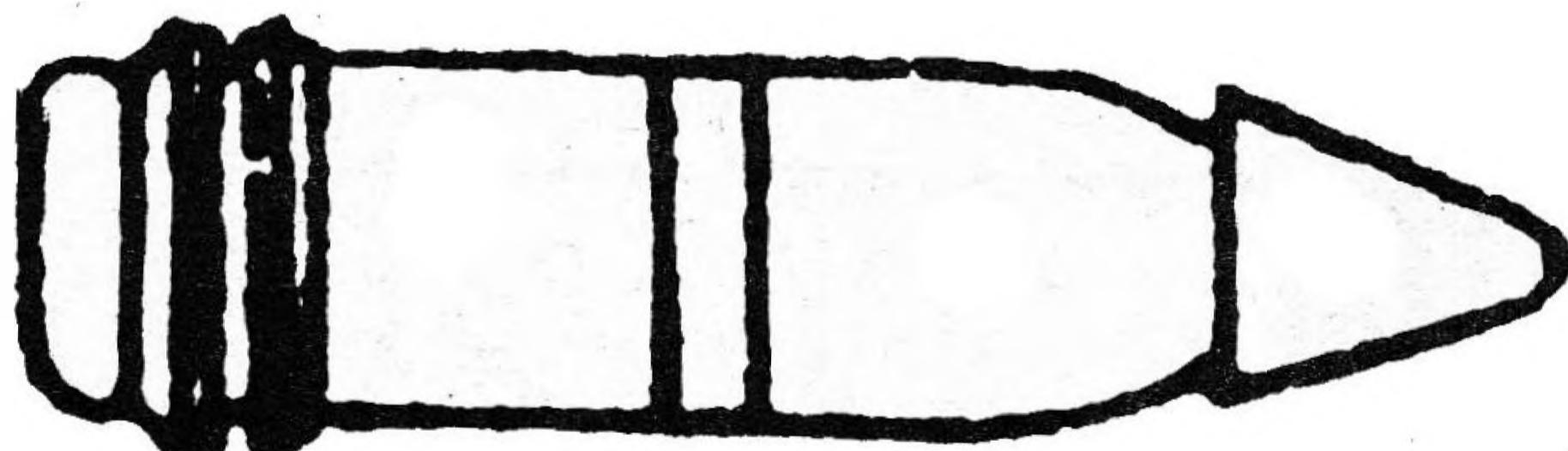
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 20 cm 50 cal Gun

*Remarks:* Rotating band same as shown for Practice  
Projectile for this gun.



*Diameter:* 200 mm

*Designation:* Type 88 AP Projectile

*Color and Markings:* White body, red central band,  
(八八) (vertically) in black on ogive

*Projectile Length:*

*Projectile Length With Fuze:*

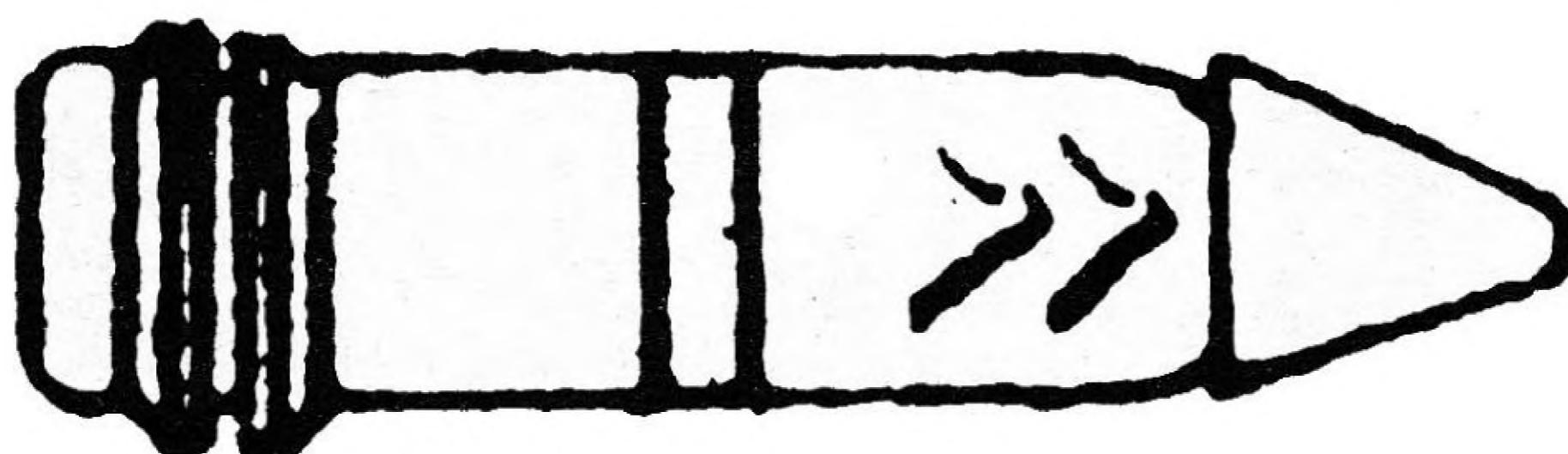
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 20 cm 50 cal Gun

*Remarks:* Rotating band same as shown for Practice  
projectile for this gun.



*Diameter:* 200 mm

*Designation:* Type 91 AP Projectile

*Color and Markings:* White body, red central band,  
( 九一 ) in black on ogive

*Projectile Length:*

*Projectile Length With Fuze:*

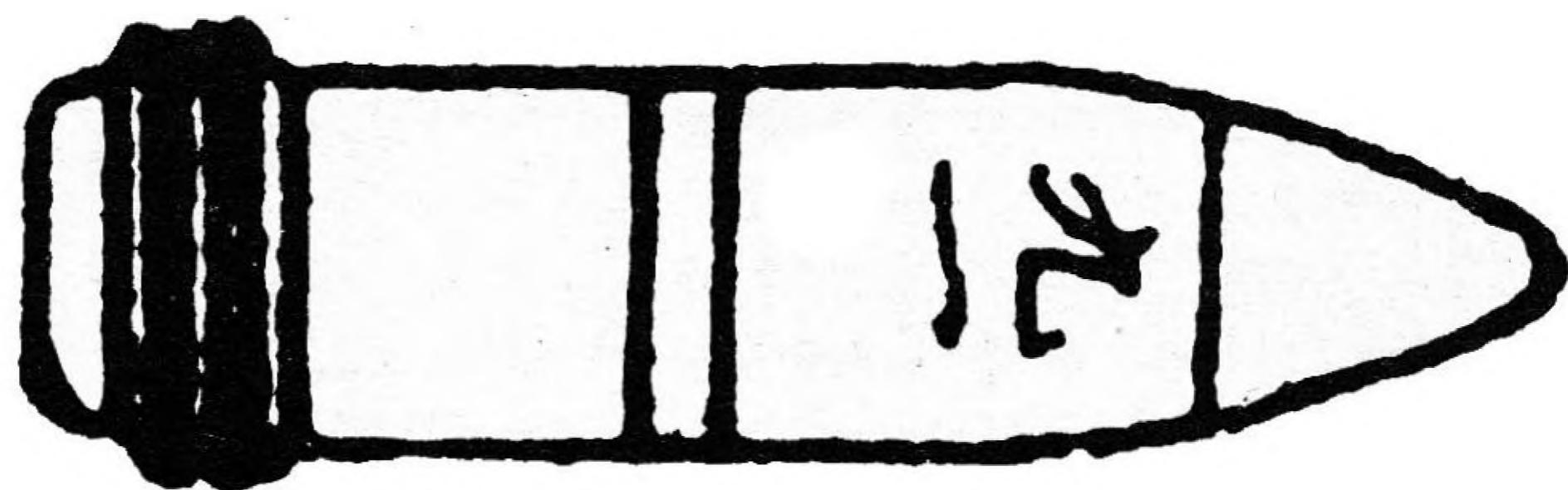
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* Mk. 2 20 cm 50 cal Gun

*Remarks:* Rotating band same as shown for Type 91  
Practice projectile for this gun.



Diameter: 200 mm

Designation: 20 cm Short Incendiary Shrapnel  
Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

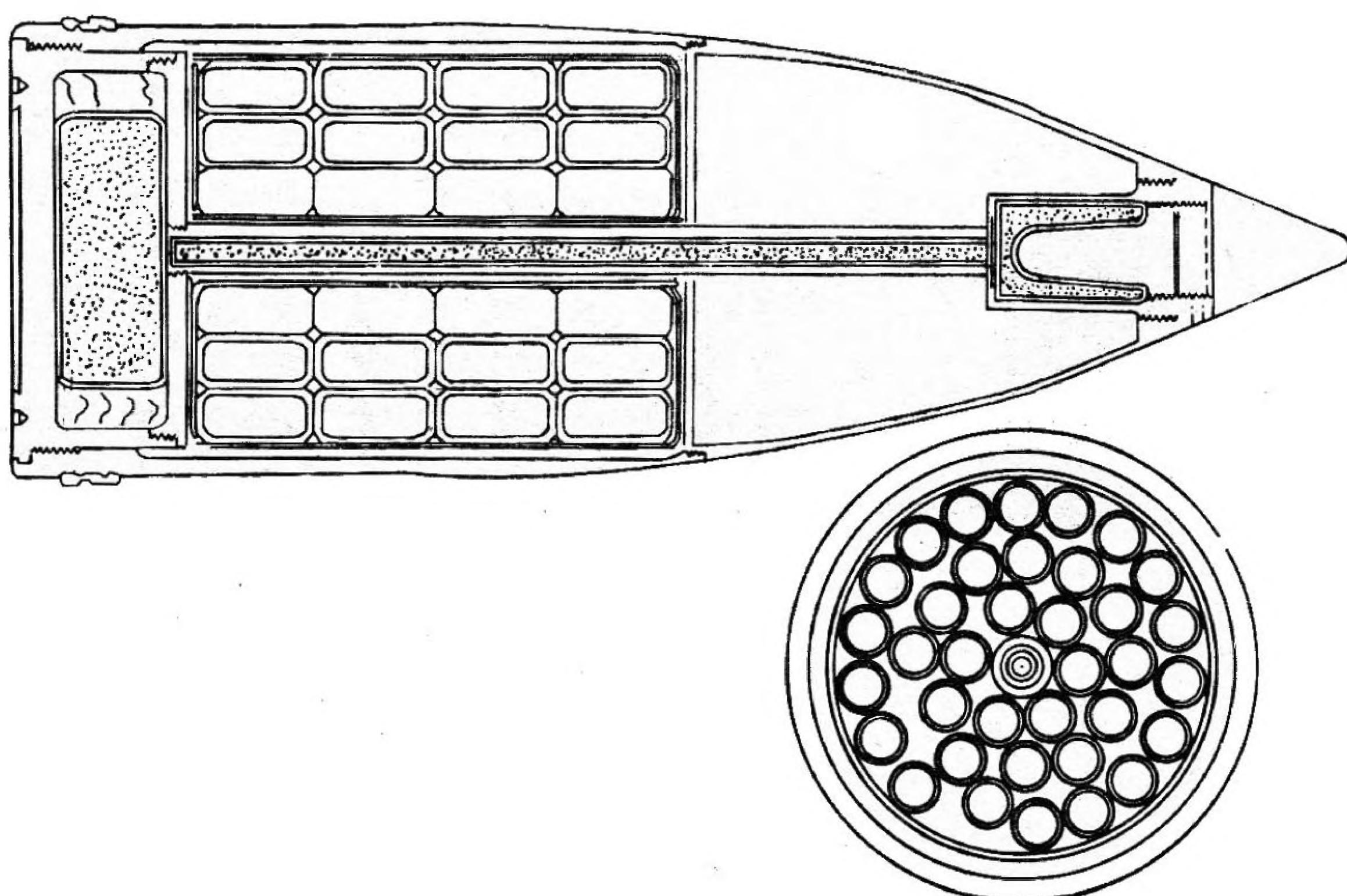
Projectile Weight:

Weight and Type of Filling:

Fuzing: Type O Time

Guns Used In: 20 cm Short Gun

Remarks: Used for AA firing



*Diameter:* 200 mm

*Designation:* Common Projectile

*Color and Markings:* Rust color, yellow central band

*Projectile Length:*

*Projectile Length With Fuze:*

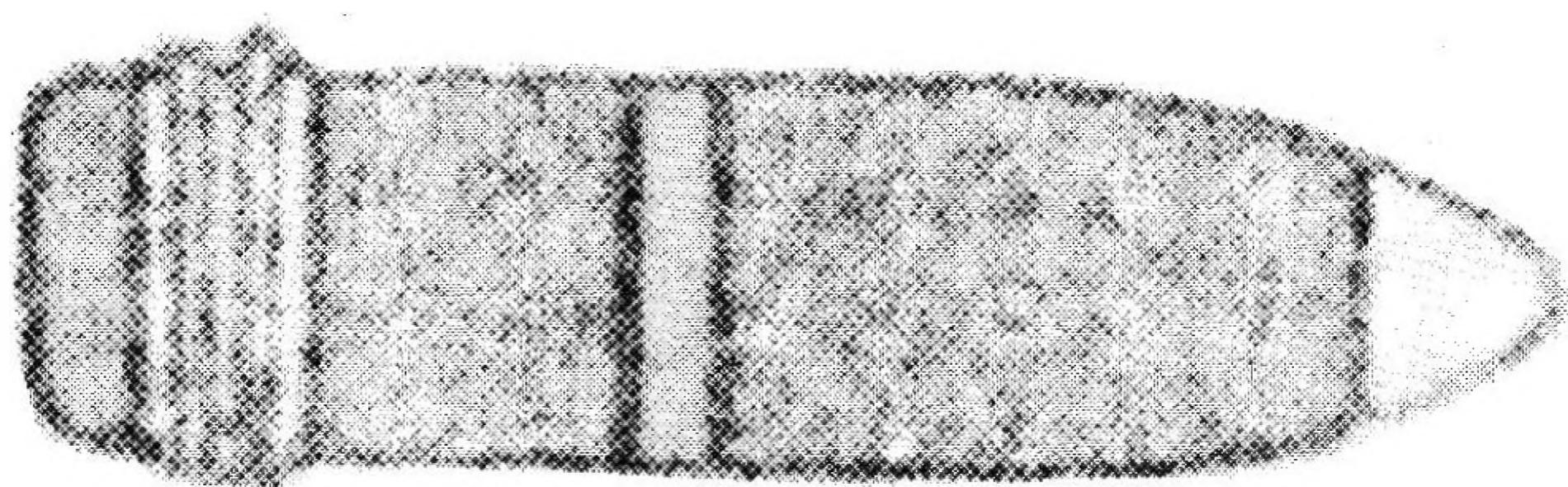
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 20 cm 50 cal Gun

*Remarks:* Rotating band same as shown for Practice projectile for this gun.



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Diameter: 200 mm

Designation: Common Projectile, Modif. 1

Color and Markings: Rust color, yellow central band

Projectile Length:

Projectile Length With Fuze:

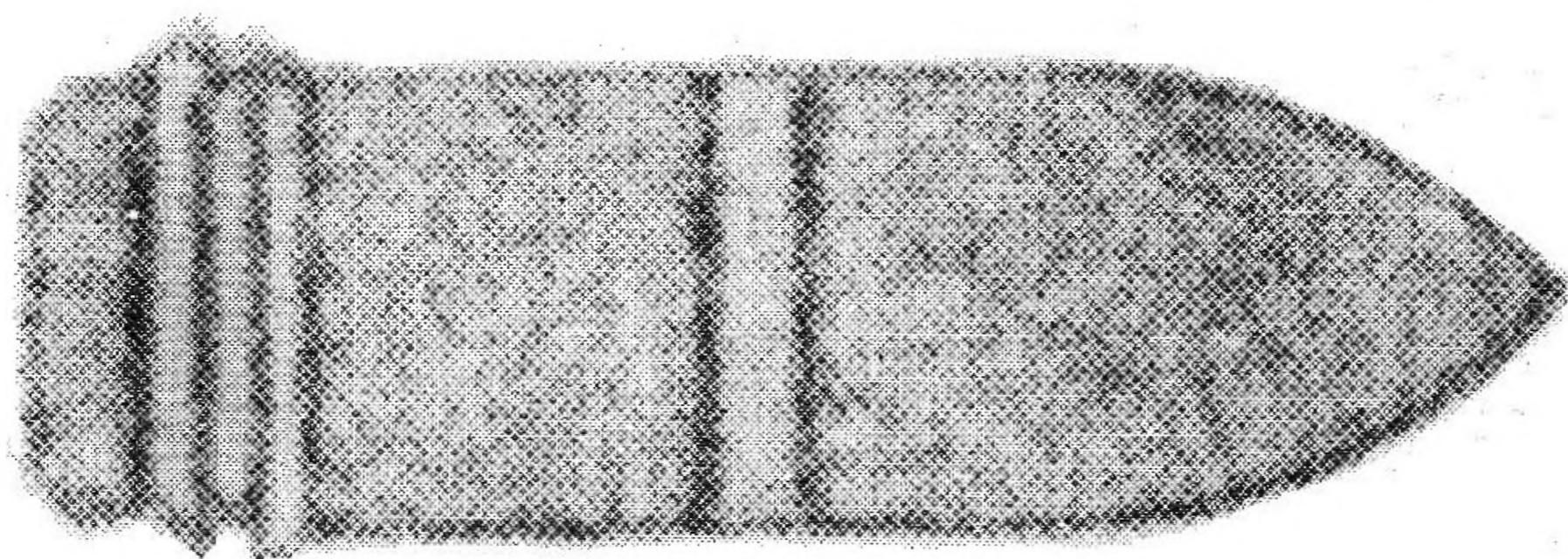
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 20 cm 45 cal Gun

Remarks:  $\ominus$  is stamped into the rotating band.  
Rotating band same as shown for Practice  
projectile for this gun.



JAPANESE PROJECTILES.  
CINCPAC-CINCPOA BULLETIN 85-45.

*Diameter:* 200 mm

*Designation:* Type 91 Common Projectile

*Color and Markings:* Rust color, yellow central band

*Projectile Length:*

*Projectile Length With Fuze:*

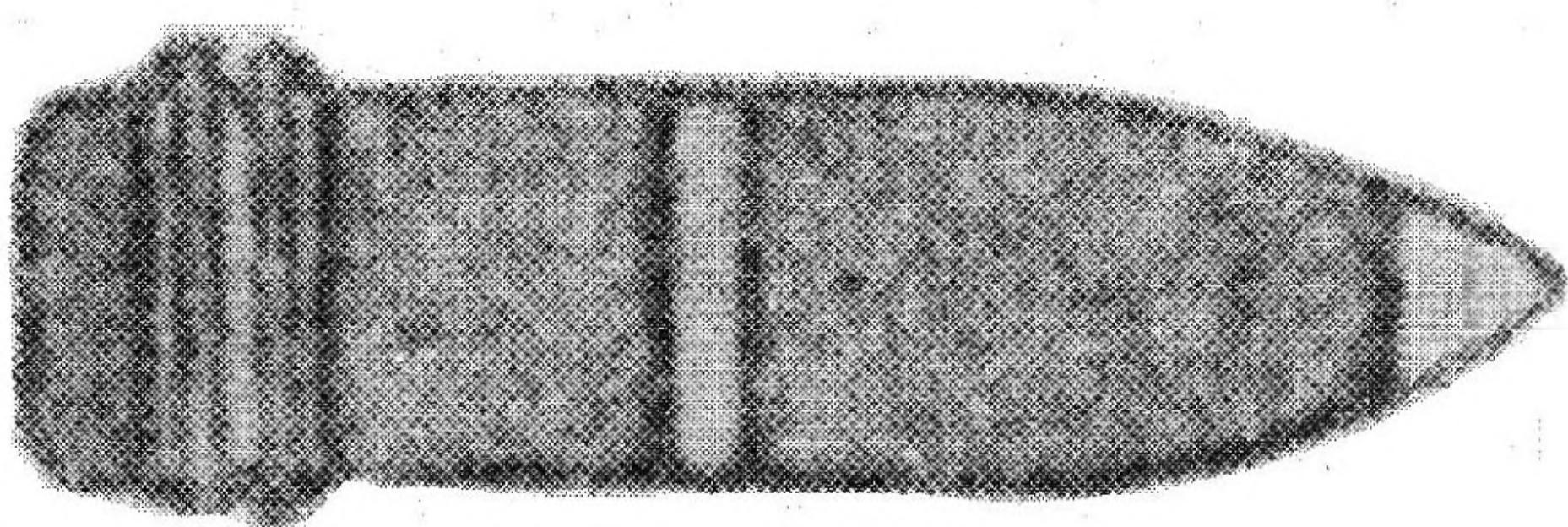
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* Mk. 2 20 cm 50 cal Gun

*Remarks:* Rotating band same as shown for Type 91 Practice projectile for this gun.



*Diameter:* 250 mm

*Designation:* Practice Projectile

*Color and Markings:* Yellow nose, black body, white central band

*Projectile Length:*

*Projectile Length With Fuze:*

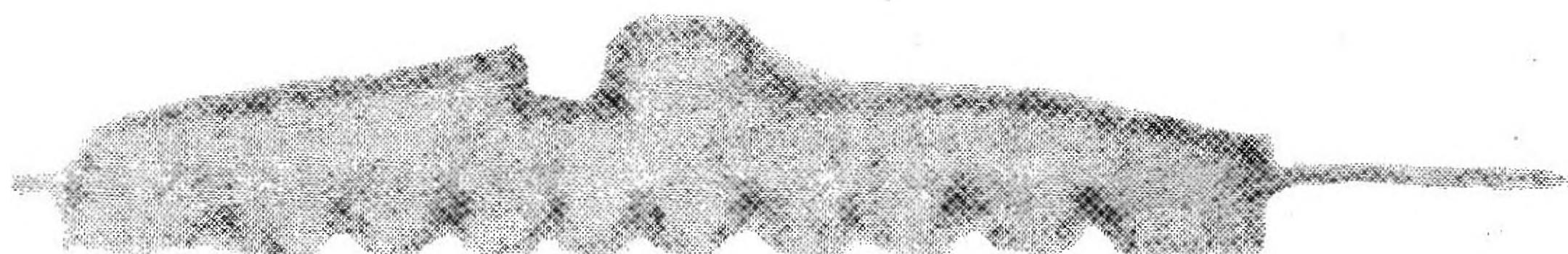
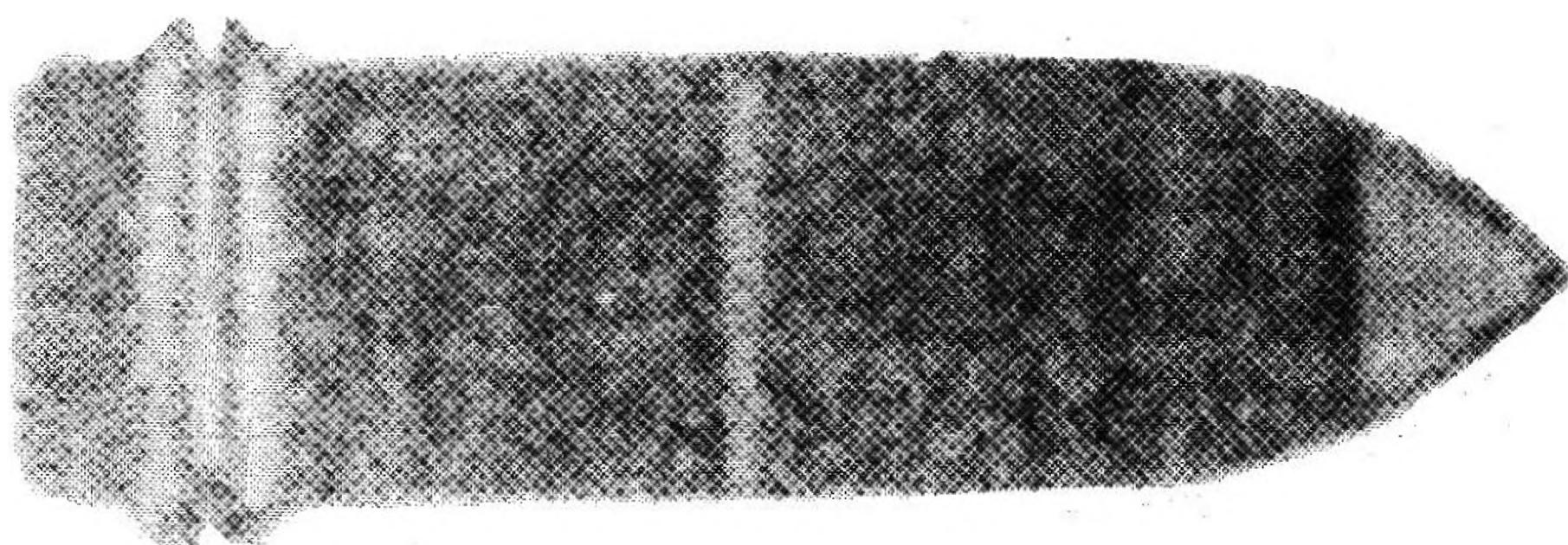
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 25 cm 40 cal Gun

*Remarks:*



*Diameter:* 250 mm

*Designation:* Common Projectile

*Color and Markings:* Rust color body, yellow central band

*Projectile Length:*

*Projectile Length With Fuze:*

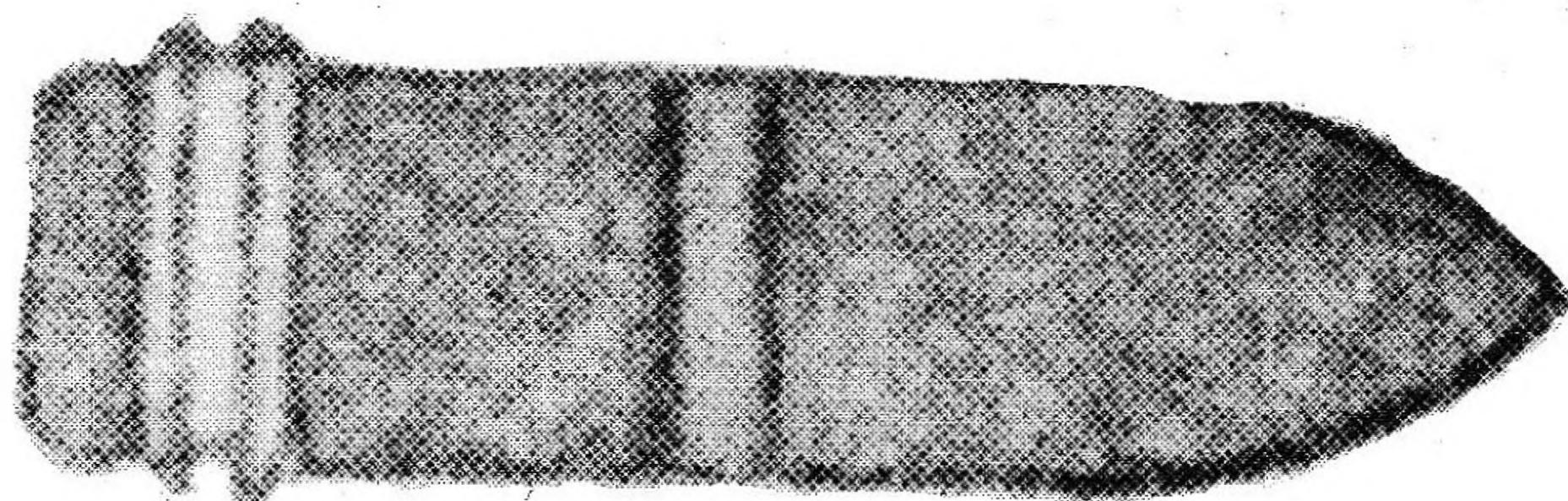
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 25 cm 40 cal Gun

*Remarks:* Rotating band same as shown for Practice projectile for this gun.



Diameter: 360 mm

Designation: Practice Projectile

Color and Markings: Yellow nose, black body, white central band

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

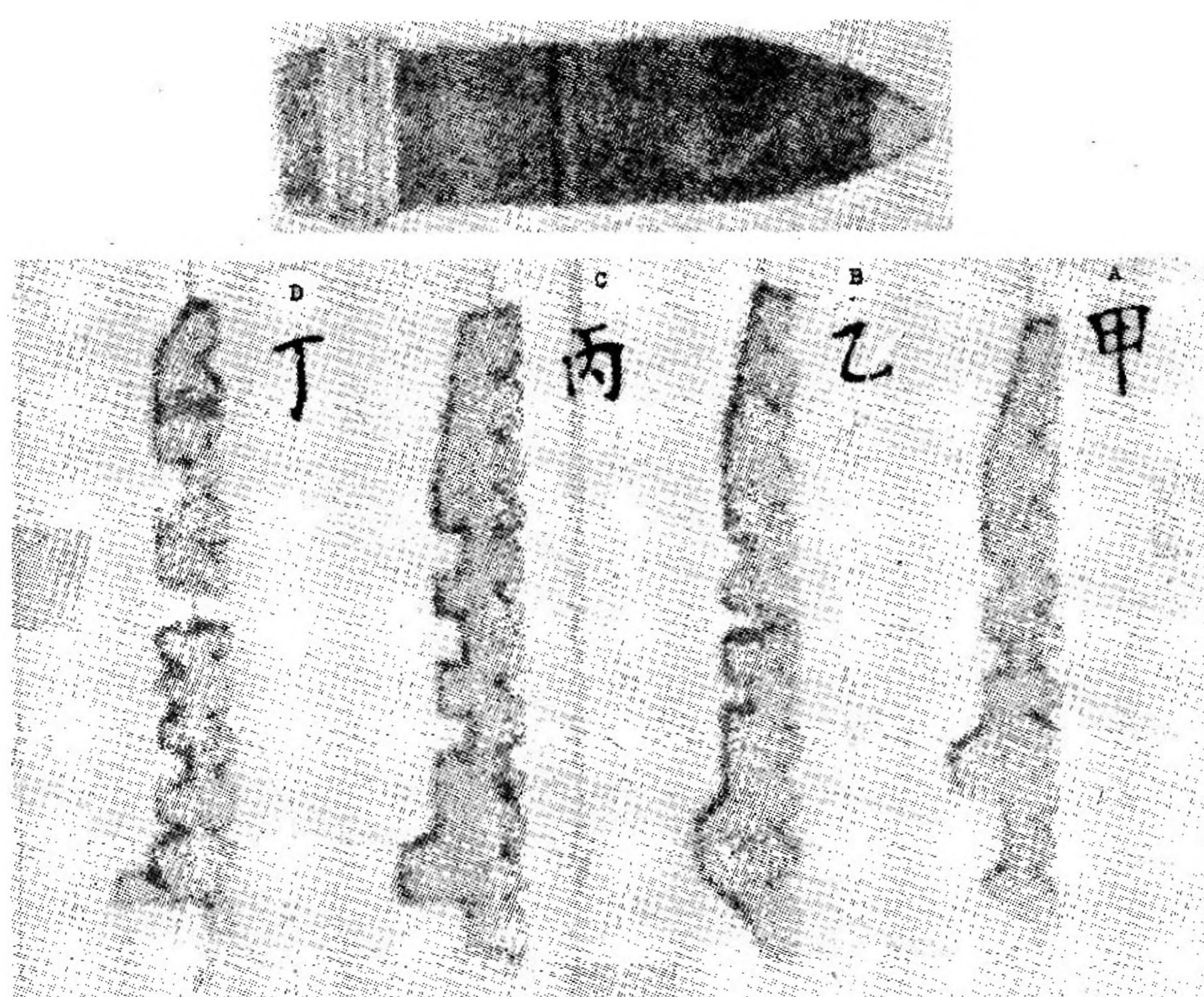
Weight and Type of Filling:

Fuzing:

Guns Used In: 36 cm Gun

Remarks: Those with rotating bands A & C will be limited to stocks on hand, and will not be manufactured in the future.

Those with D rotating bands which are newly manufactured or are modified B bands will have (丁) or (乙), respectively, painted in black on the projectile.



*Diameter:* 360 mm

*Designation:* Practice Projectile

*Color and Markings:* Yellow nose, rust color body,  
yellow central band.

*Projectile Length:*

*Projectile Length With Fuze:*

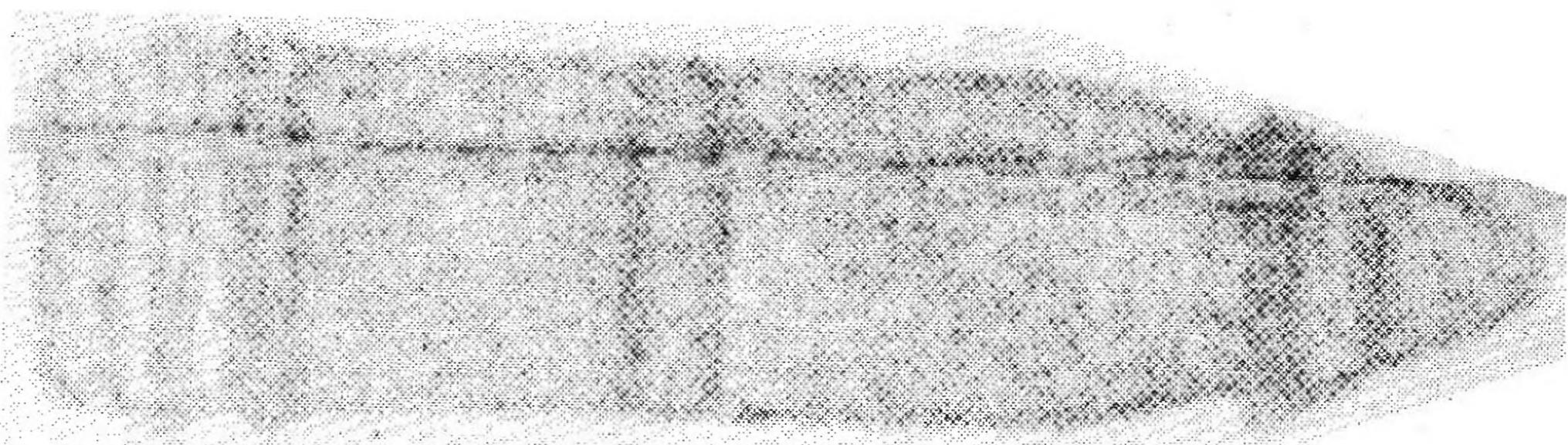
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 36 cm Gun

*Remarks:* Converted from Capped Common Projectile.  
Rotating bands & remarks same as for Practice  
projectile for this gun



*Diameter:* 360 mm

*Designation:* Type 91 Practice Projectile

*Color and Markings:* ( 九一 ) (vertically) on ogive in white, yellow nose, black body, white central band.

*Projectile Length:*

*Projectile Length With Fuze:*

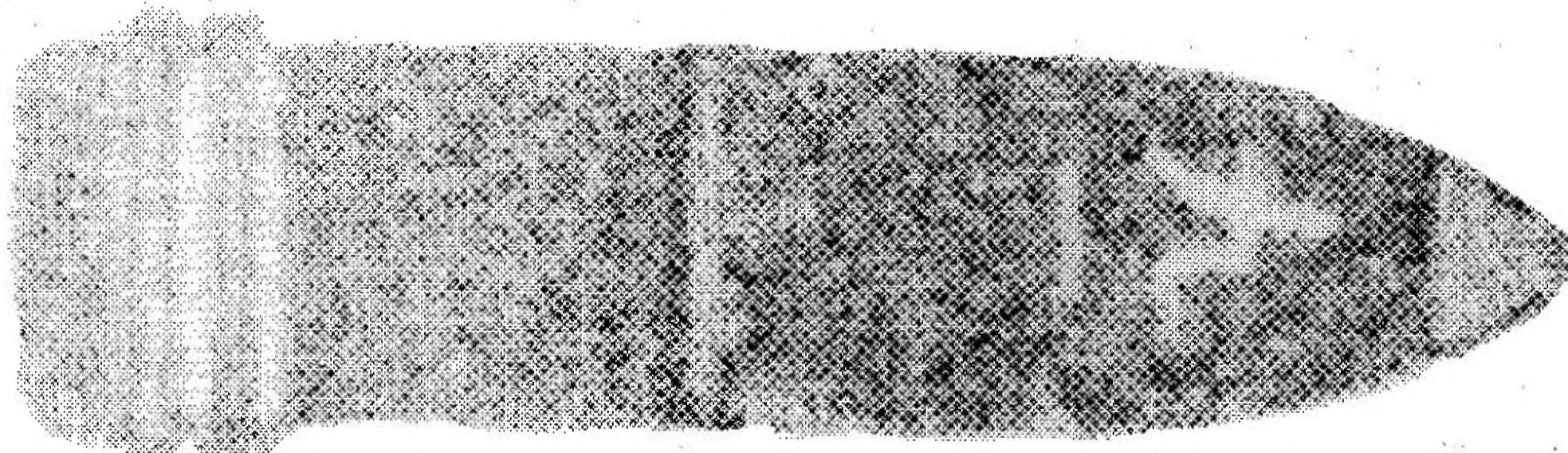
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 36 cm Gun

*Remarks:* Rotating bands & remarks same as shown for Practice projectiles for this gun.



Diameter: 360 mm

Designation: Mk. 5 AP Projectile

Color and Markings: White body, red central band,  
( 五号 ) (vertically) in black on ogive

Projectile Length:

Projectile Length With Fuze:

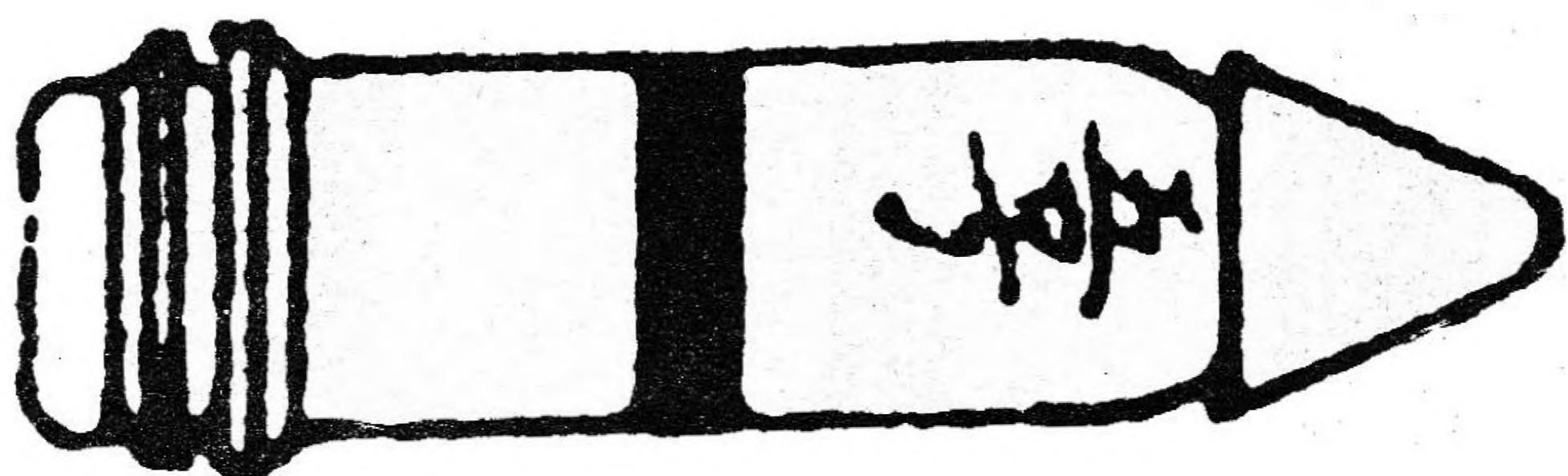
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 36 cm Gun

Remarks: Rotating bands & remarks same as shown for  
Practice projectile for this gun.



*Diameter:* 360 mm

*Designation:* Capped AP Projectile

*Color and Markings:* White body, red central band

*Projectile Length:*

*Projectile Length With Fuze:*

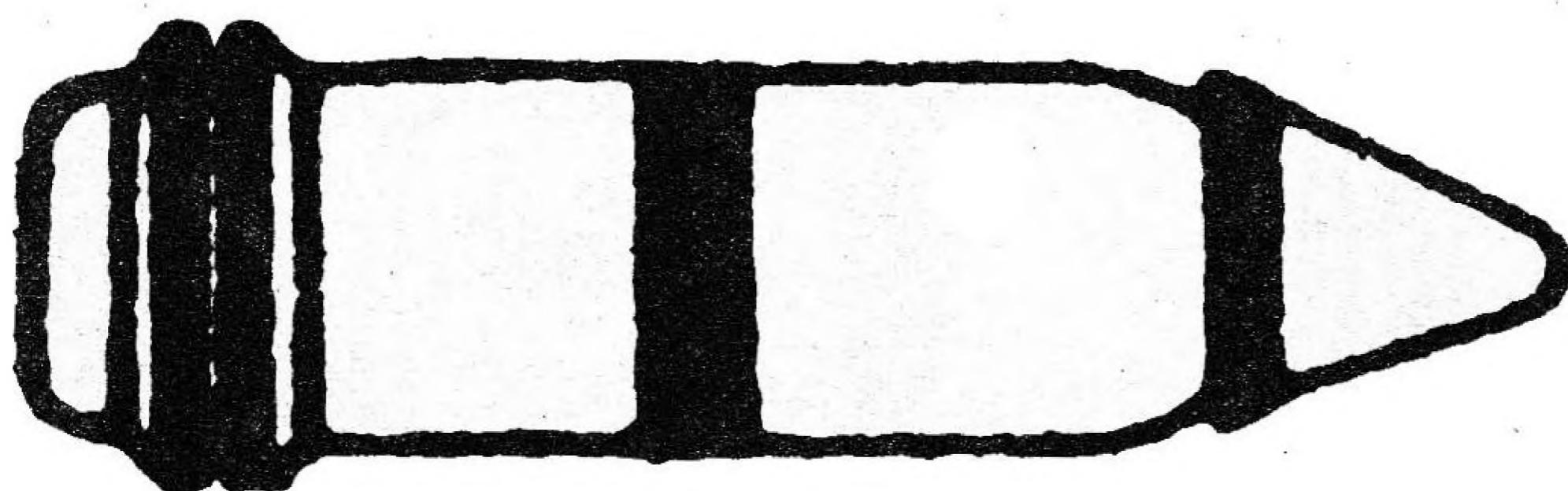
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 36 cm Gun

*Remarks:* Rotating bands & remarks same as shown for Practice projectile for this gun.



*Diameter:* 360 mm

*Designation:* Type 88 AP Projectile

*Color and Markings:* White body, red central band, (八八) (vertically) in black on ogive

*Projectile Length:*

*Projectile Length With Fuze:*

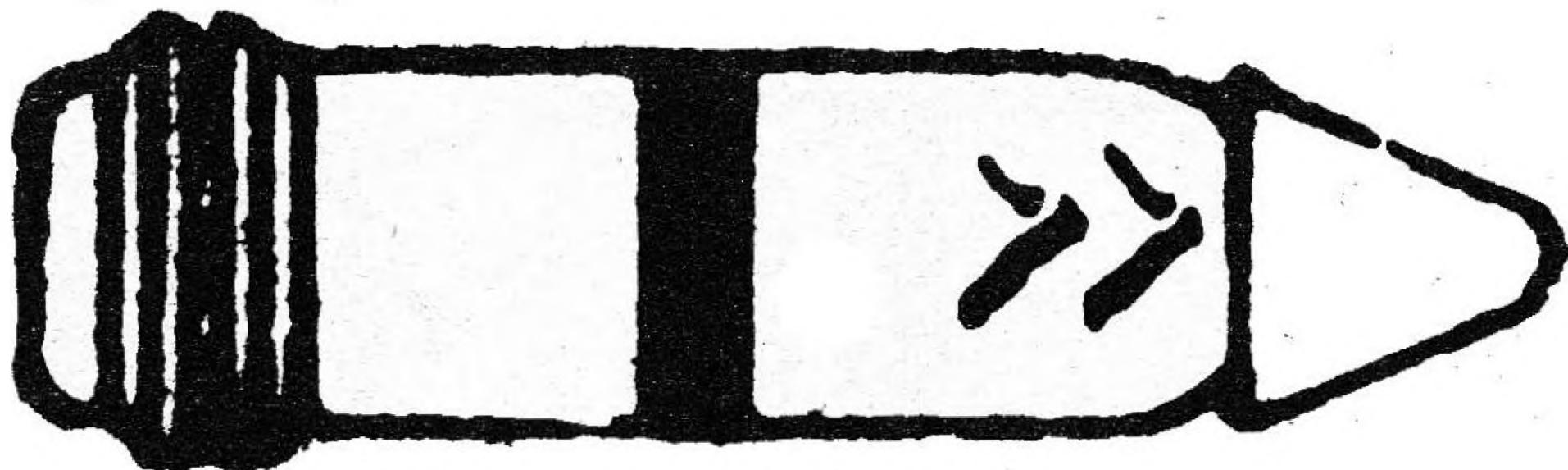
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 36 cm Gun

*Remarks:* Rotating bands & remarks same as shown for Practice projectile for this gun.



*Diameter:* 360 mm

*Designation:* Type 91 AP Projectile

*Color and Markings:* White body, red central band,  
( 九一 ) (vertically) in black on ogive

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* Type 13, Mk. 5 (Cap attached)

*Guns Used In:* 36 cm Gun

*Remarks:* Rotating bands & remarks same as shown for  
Practice projectile for this gun.



*Diameter:* 360 mm

*Designation:* Type 1 AP Projectile

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* Type 13 Mk. 5 (Cap attached)

*Guns Used In:* 36 cm 45 cal Gun

*Remarks:*

*Diameter:* 360 mm

*Designation:* Capped Common Projectile

*Color and Markings:* Rust color, yellow central band

*Projectile Length:*

*Projectile Length With Fuze:*

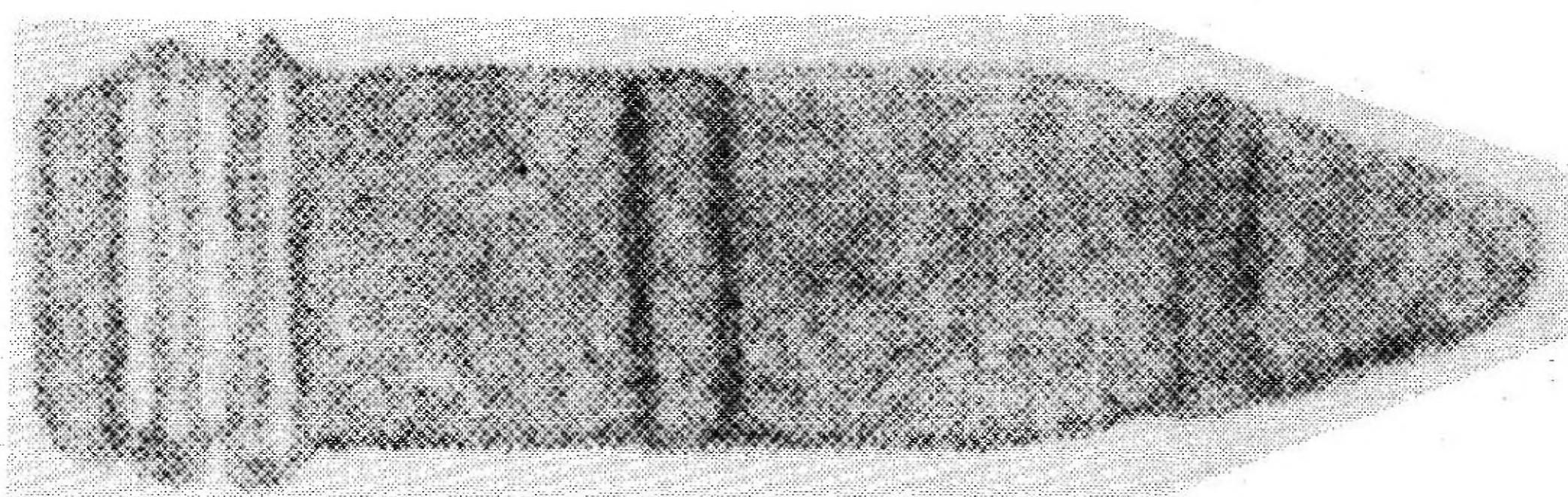
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 36 cm Gun

*Remarks:*



*Diameter:* 400 mm

*Designation:* Practice Projectile

*Color and Markings:* Yellow nose, black body, white central band

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 40 cm Gun

*Remarks:*

*Diameter:* 400 mm

*Designation:* Practice Projectile

*Color and Markings:* Yellow nose, white body, red central band

*Projectile Length:*

*Projectile Length With Fuze:*

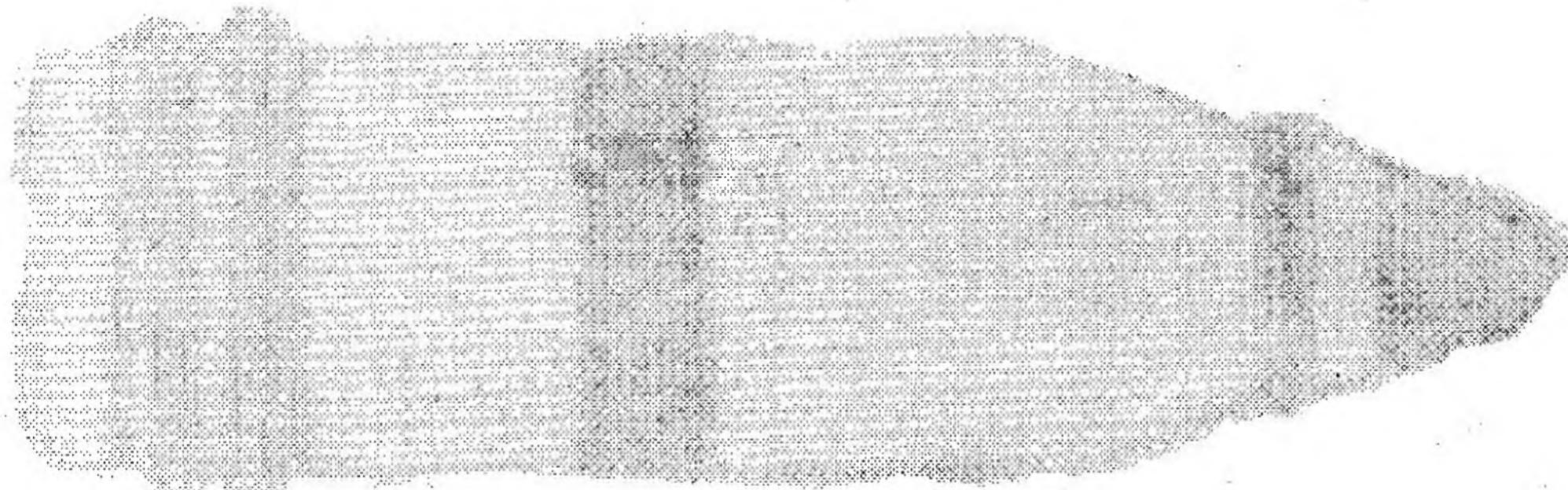
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 40 cm Gun

*Remarks:* Converted from Capped AP Projectile.  
Rotating band same as shown for Practice projectile for this gun.



*Diameter:* 400 mm

*Designation:* Type 91 Practice Projectile

*Color and Markings:* (九一) (vertically) on ogive in white, black body, white central band

*Projectile Length:*

*Projectile Length With Fuze:*

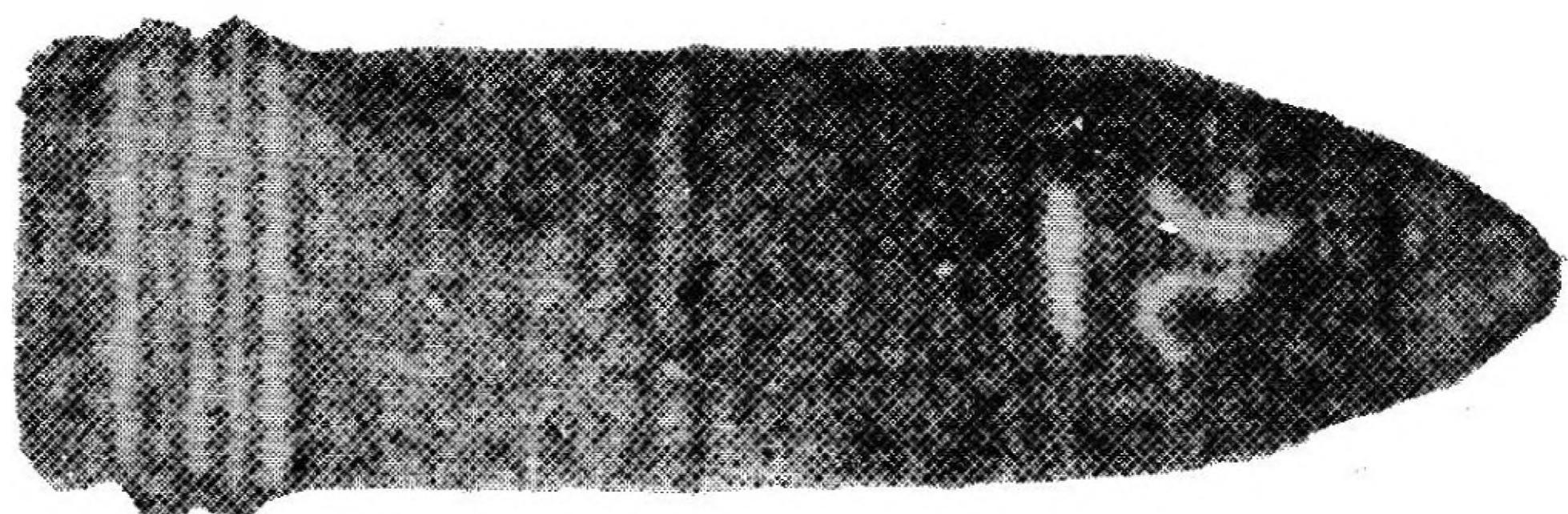
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* Type 94 40 cm Gun

*Remarks:* Rotating band same as shown for Practice projectile for this gun.



*Diameter:* 400 mm

*Designation:* Capped AP Projectile

*Color and Markings:* White body, red central band

*Projectile Length:*

*Projectile Length With Fuze:*

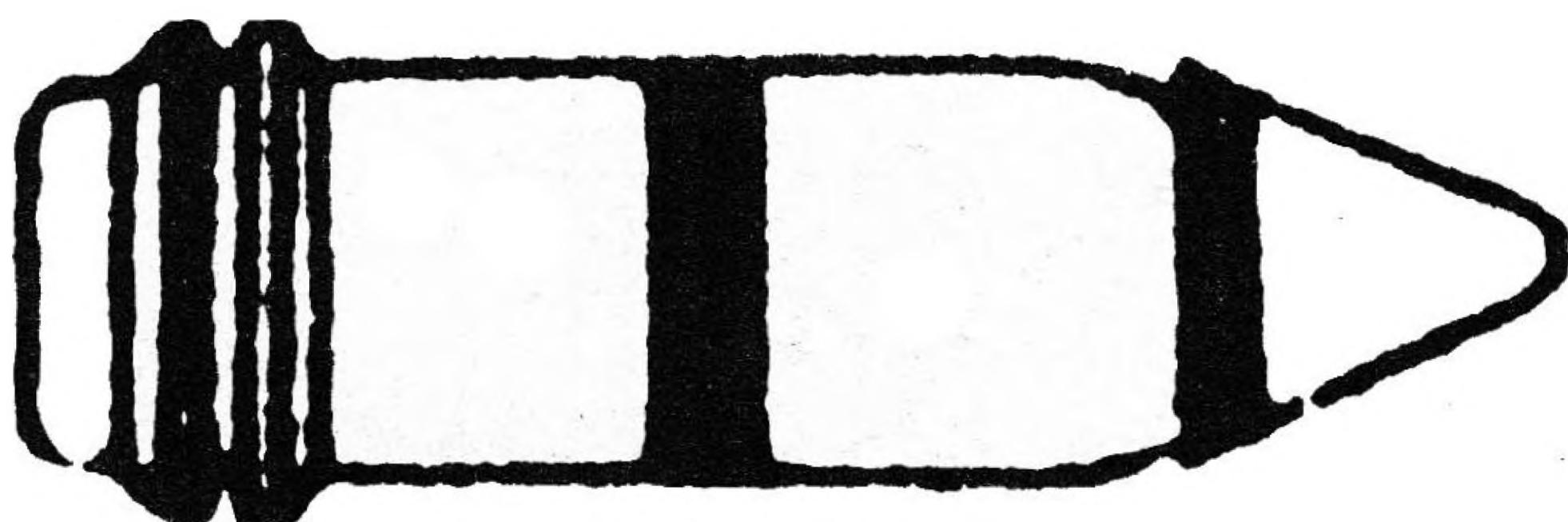
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 40 cm Gun

*Remarks:* Rotating band same as shown for Practice projectile for this gun.



Diameter: 400 mm

Designation: Mk. 5 AP Projectile

Color and Markings: White body, red central band,  
(五号) (vertically) in black on ogive

Projectile Length:

Projectile Length With Fuze:

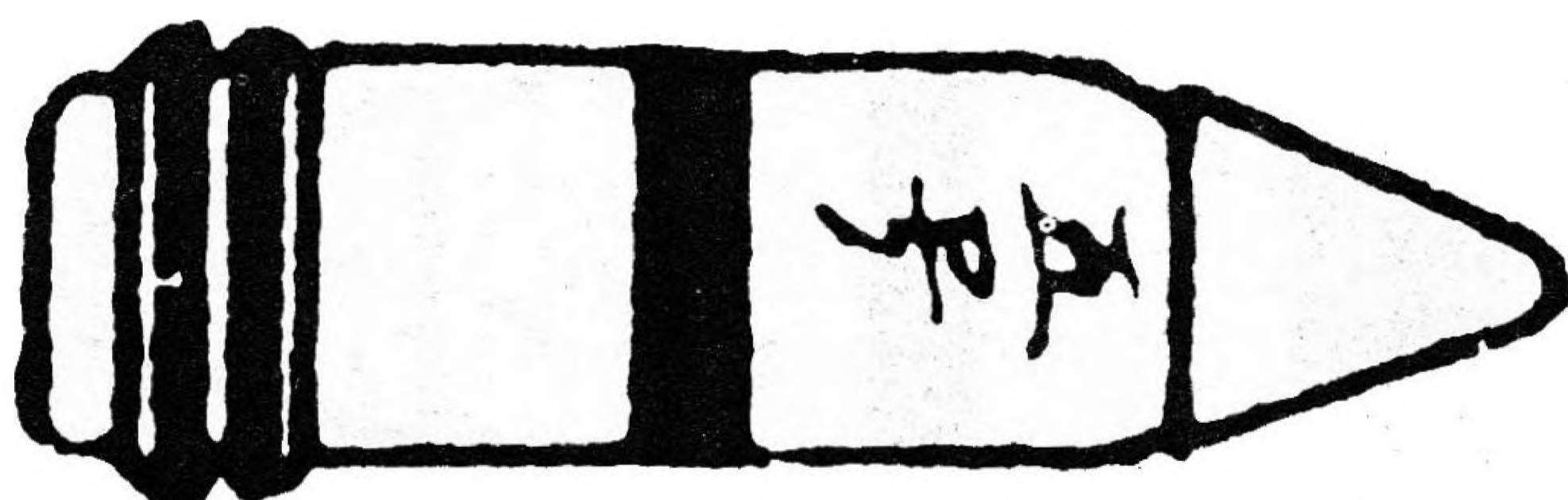
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 40 cm Gun

Remarks: Rotating band same as shown for Practice  
projectile for this gun.



*Diameter:* 400 mm

*Designation:* Type 88 AP Projectile

*Color and Markings:* White body, red central band, (八八)  
(vertically) in black on ogive

*Projectile Length:*

*Projectile Length With Fuze:*

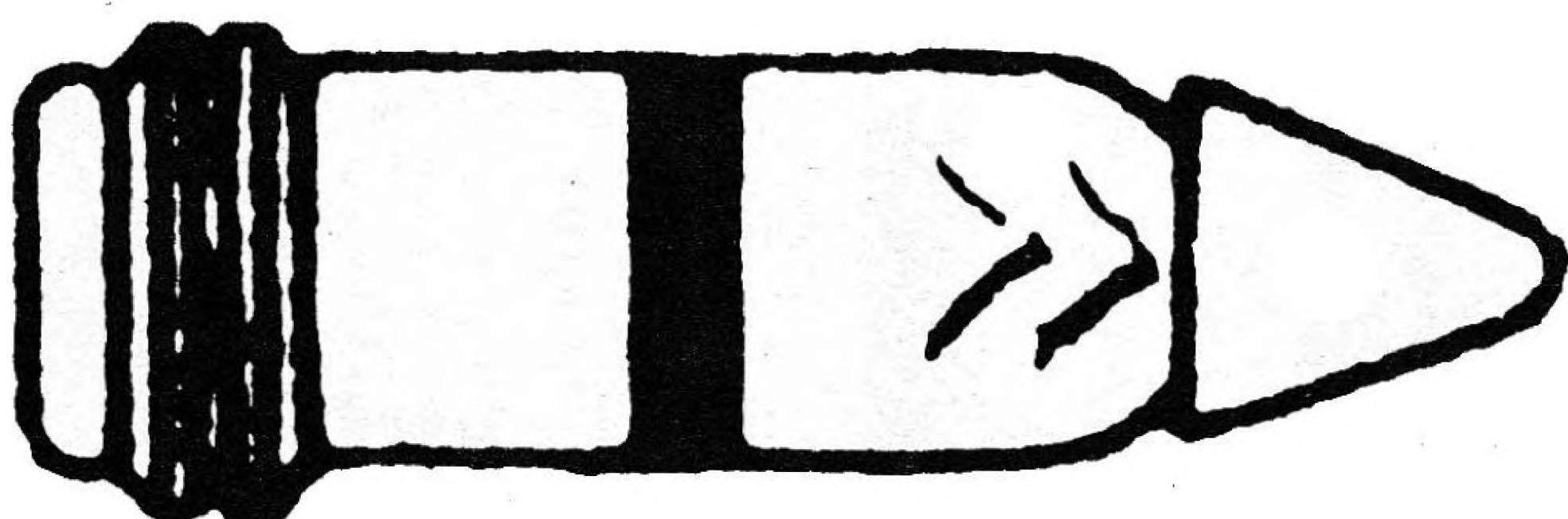
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:*

*Guns Used In:* 40 cm Gun

*Remarks:* Rotating band same as shown for Practice  
projectile for this gun



*Diameter:* 400 mm

*Designation:* Type 91 AP Projectile

*Color and Markings:* White body, red central band (九一) (vertically) in black on ogive

*Projectile Length:*

*Projectile Length With Fuze:*

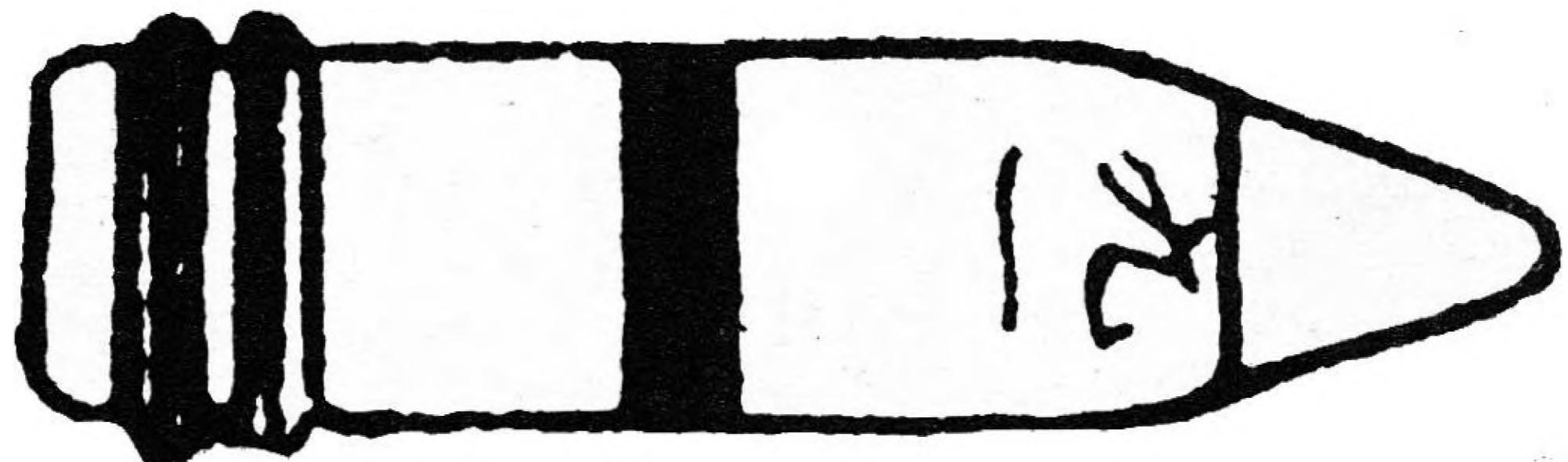
*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* Type 13 Mk. 5 (Cap attached)

*Guns Used In:* Type 94 40 cm Gun

*Remarks:* Rotating band same as shown for Practice projectile for this gun.



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*Diameter:* 400 mm

*Designation:* Type 1 AP Projectile

*Color and Markings:*

*Projectile Length:*

*Projectile Length With Fuze:*

*Projectile Weight:*

*Weight and Type of Filling:*

*Fuzing:* Type 13 Mk. 5 (Cap attached)

*Guns Used In:* 40 cm 45 Cal Gun

*Remarks:*

# *Additional Projectiles*

The following projectiles have been referred to in documents but the amount of information on hand does not justify their inclusion in the foregoing section:

<u>Projectile</u>	<u>Guns Used In</u>
<u>Hand Thrown</u>	
Type 94 Substitute Smoke Candle A	
Type 94 Floating Smoke Candle A	
Type 94 Floating Smoke Candle B	
Type 94 Thin Smoke Smoke Candle	
Type 94 Signal Smoke Candle. Red, yellow, blue	
10th Year Type Signal Shell, Yellow Dragon	
10th Year Type Signal Shell, Black Dragon	
10th Year Type Ground Signal Shell. White, red, green	
10th Year Type Illuminating Shell A and B	
<u>7.7 mm</u>	
Type 97 Tracer Projectile	Type 97 Tank HMG
Type 97 Incendiary Projectile	Type 97 Tank HMG
Type 97 AP Projectile	Type 97 Tank HMG
Type 89 Cupro-Nickel Jacketed Projectile	Type 92 HMG
Type 97 Cupro-Nickel Jacketed Projectile	Type 97 Tank HMG
Type 97 Ball Projectile	Type 97 Tank HMG
<u>50 mm</u>	
Type 93 Practice Signal Shells	10th Year Type Grenade Discharger
Green Parachute Star	

50 mm (continued)

Red Parachute Star

White Parachute Star

Yellow Dragon

Black Dragon

White Dragon

Green Dragon

Red Dragon

White Single Shooting Star

White Double Shooting Star

White Triple Shooting Star

Red Single Shooting Star

Red Double Shooting Star

Red Triple Shooting Star

Green Single Shooting Star

Green Double Shooting Star

Green Triple Shooting Star

Red Flag

Yellow Flag

Black Flag

White Flag

Green Flag

National Flag

Type 93 Practice Illuminating  
Shell

10th Year Type  
Grenade Discharger

11th Year Type Illuminating  
Shell A, B

10th Year Type  
Grenade Discharger

12 mm

Ball Projectile	Vickers Type 12 mm MG
Tracer Projectile	Vickers Type 12 mm MG
Incendiary Projectile	Vickers Type 12 mm MG
AP Projectile	Vickers Type 12 mm MG

25 mm

Target Projectile	Type 96 Automatic Cannon
AP Projectile, Model 2	Type 96 Automatic Cannon

40 mm

Tracer Projectile	Type 91 AA Automatic Cannon
AP Projectile	Type 91 AA Automatic Cannon
HE Projectile	Type 91 AA Automatic Cannon
Practice Projectile	Vickers Type 40 mm Automatic Cannon
Time Practice Projectile	Vickers Type 40 mm Automatic Cannon
Tracer Projectile	Vickers Type 40 mm Automatic Cannon
AP Projectile	Vickers Type 40 mm Automatic Cannon
HE Projectile	Vickers Type 40 mm Automatic Cannon
HE Projectile, Modif. 1	Vickers Type 40 mm Automatic Cannon
HE-T Projectile	Vickers Type 40 mm Automatic Cannon
HE-T Projectile, Modif. 1	Vickers Type 40 mm Automatic Cannon



120 mm (continued)

Illuminating Projectile A	10th Year Type 12 cm 45 cal DP Gun
Incendiary Projectile	10th Year Type 12 cm 45 cal DP Gun
Incendiary Projectile	12 cm Short Gun
Incendiary Shrapnel Projectile	10th Year Type 12 cm 45 cal DP Gun
Incendiary Shrapnel Projectile	12 cm Short Gun
Smoke Projectile	10th Year Type 12 cm 45 cal DP Gun
Common Projectile	12 cm Short Gun
Common Projectile, Modif. 4	12 cm 45 cal DP Gun

127 mm

Smoke Projectile	12.7 cm Gun
Illuminating Projectile B, Modif. 2	Type 88 12.7 cm 40 cal DP Gun Type 89 12.7 cm 40 cal DP Gun
Common Projectile, Modif. 4	12.7 cm 40 cal DP Gun
Type 3 Common Projectile, Modif. 1	Type 88 12.7 cm 40 cal DP Gun Type 89 12.7 cm 40 cal DP Gun
Type 3 Common Projectile	Type 88 12.7 cm 40 cal DP Gun Type 89 12.7 cm 40 cal DP Gun

150 mm

Type 0 Common Projectile (Previously 15 cm Gun designated Mk. 5)	
Type 1 AP Projectile	Type 96 15 cm Howitzer

155 mm

Type 0 Common Projectile (Previously 15.5 cm Gun designated Type 91)

200 mm

Anti-submarine Projectile 20 cm Short Gun  
AP Projectile 20 cm 45 cal Gun  
Barrage Projectile 20 cm Short Gun  
Type 0 Common Projectile 20 cm Short Gun  
Common Projectile, Modif. 1 20 cm 45 cal Gun

300 mm

Type 90 Improved AP-HE Projectile 7th Year Type 30 cm Howitzer

400 mm

Type 1 Substitute Projectile, Type 94 40 cm Gun  
Models 1, 2, 3, 4 (Previously  
designated Mk. 1,2,3,4)

